applied catalysis

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Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization 81(1992)101

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Catalytic activity of layered α-(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition 92(1992)81

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Aromatization of short chain alkanes on zeolite catalysts — a Review 89(1992)1

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H

 Haack, L.P., deVries, J.E., Otto, K. and Chattha, M.S.
 Characterization of lanthanum-modified γ-alumina by X-ray photoelectron spectroscopy and carbon dioxide absorption 82(1992)199

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High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor 88(1992)L1

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Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts 99(1993)131

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 Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide 98(1993)125

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 Influence of sulphur poisoning of copper/alumina
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 Hydrogenation of carbon dioxide to C₁-C₇ hydrocarbons via methanol on composite catalysts 94(1993)31

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Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis 83(1992)179

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Intermetallic catalysts for methanol synthesis: Ternary alloys containing copper and cerium 81(1992)257

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Alkylation of benzene with propene to produce cumene over a nickel/γ-alumina catalyst 91(1992)125

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Kinetic study of steam reforming of methanol over copper-based catalysts 93(1993)245

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- Surface acidity of porous catalysts by intermittent temperature-programmed desorption 96(1993)355
- Joly, J.P., Khalfallah, M., Bianchi, D. and Pajonk, G.M. Acidity of a microporous amorphous alumina measured by intermittent temperature-programmed desorption of ammonia 98(1993)61
- Jun, K.-W., Lee, K.-W., Shim, E.-K. and Cho, N.-S.
 Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts 96(1993)269

K

- Kabe, T., Ishihara, A. and Zhang, Q.
 Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene
 97(1993)L1
- Kaminski, D.I., Temkin, O.N. and Bonchev, D.G.
 Reaction network for the epoxidation reaction of alkenes with organic hydroperoxides 88(1992)1
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 Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion 84(1992)47
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 Oxidative dehydrogenation of ethane and the coupling of methane over sodium containing cerium oxides 87(1992)171
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 Oxidative coupling of methane over alkali metal chloride promoted zirconia. Effect of the preparation pethod 90(1992)199
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- Kharitonov, A.S., Sheveleva, G.A., Panov, G.I., Sobolev, V.I., Paukshits, Ye.A. and Romannikov, V.N. Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol 98(1993)33
- Kiennemann, A., Barama, A., Boujana, S. and Bettahar, M.M.
 Higher alcohol synthesis on modified iron based catalysts: Copper and molybdenum addition 99(1993)175
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- Kim, H., Mi Suh, H. and Paik, H.
 Oxidative methylation of toluene with methane over
 Pb/Li/MgO catalysts 87(1992)115
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- Kim, J.-H., Namba, S. and Yashima, T. Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation 83(1992)51

Kim, J.-H., Namba, S. and Yashima, T.
Preparation of highly para-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol 100(1993)27

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Kim, J.C., see Kim, K.M. 83(1992)15

Kim, K.M., Woo, H.C., Cheong, M., Kim, J.C., Lee, K.H., Lee, J.S. and Kim, Y.G. Chemical equilibria and catalytic reaction of gasphase methanol synthesis from methyl formate 83(1992)15

Kim, S.H. and Chon, H.
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 Toluene isopropylation over zeolite b and metallosilicates of MFI structure 90(1992)1

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Influence of copper on physico-chemical and catalytic properties of ZSM-5 zeolites in the reaction of ethene aromatization. Arishtirova et al., 81(1992)15

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Influence of coke formation on the aromatization of isophorone. Sai Prasad et al., 83(1992)141

Effects of pretreatments on state of gallium and aromatization activity of gallium/ZSM-5 catalysts. Dooley et al., 84(1992)17

Conversion of light alkanes into aromatic hydrocarbons. VI. Aromatization of C₂-C₄ alkanes on H-ZSM-5 - Reaction mechanisms. Guisnet et al., 87(1992)255

Catalytic behavior of platinum ion-exchanged zincaluminosilicates in n-pentane aromatization. Fukase et al., 93(1992)35

Arrhenius parameters

Selective oxidation of methyl α -D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Aurichalcite

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Azurite

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

B

B-phase

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

Balandin volcano curves

Kinetic interpretation of periodic trends in heterogeneous catalysis. Kasztelan, 83(1992)L1

Ball milling

Nanophase iron carbides as catalysts for carbon dioxide hydrogenation. Trovarelli et al., 95(1993)L9

Barium hydroxide

Oxidative dimerization of methane in molten Na₂CO₃–K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Barium modification

Barium modification of a high-silica zeolite for methanol conversion to light alkenes. Abdillahi et al., 91(1992)1

Basic sites

Alkylation of phenol with methanol over Mn₃O₄. Bezouhanova et al., 83(1992)45

Basicity

Decarbonylation of methyl formate over heterogeneous catalysts. I. Activity and selectivity. Lee et al., 83(1992)165

Influence of basicity on the catalytic activity for oxidative coupling of methane. Maitra et al., 85(1992)27

Oxidative dimerization of methane in molten Na₂CO₃– K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Beckmann rearrangement

Factors affecting selectivity in the rearrangement of cyclohexanone oxime to caprolactam over modified aluminas. Curtin et al., 93(1992)75

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al.,

93(1992)91

Benzene

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al.,

89(1992)77

Alkylation of benzene with propene to produce cumene over a nickel/γ-alumina catalyst. Jian et al., 91(1992)125

Benzene alkylation

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Benzene complete oxidation

Complete oxidation of benzene on manganese dioxide by ozone. Naydenov et al., 97(1993)17

Benzene hydrogenation

Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization. Guerrero-Ruiz et al., 81(1992)101

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263 Relationship between reduced nickel and activity for benzene hydrogenation on Ni-USY zeolite catalysts. Daza et al., 87(1992)145

Benzene isopropylation

Alkylation of benzene with isopropanol over zeolite beta. Reddy, 95(1993)53

Benzene oxidation

Oxidation of benzene to phenol by nitrous oxide over Fe-ZSM-5 zeolites. Panov et al., 82(1992)31

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Benzene partial oxidation

Direct partial oxidation of benzene to phenol on zeolite catalysts. Burch et al., 86(1992)139

Benzene selective oxidation

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Benzene to phenol oxidation

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

1,4-Benzoquinone

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Benzylation

Benzylation of toluene by benzyl chloride over protonic zeolites. Coq et al., 100(1993)69

Bifunctional mechanism

Aromatization of short chain alkanes on zeolite catalysts – a Review. Guisnet et al., 89(1992)1

Bimetallic

X-ray diffraction and electron microscopy studies of Pt-Sn-SiO₂ catalysts. Srinivasan et al., 87(1992)45

Bimetallic catalysts

Carbon supported bimetallic catalysts containing iron. I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization. Guerrero-Ruiz et al., 81(1992)101

Activity and infrared studies during carbon monoxide oxidation over bimetallic palladium-rhodium/silica catalysts. Araya et al., 92(1992)17

Characterization of platinum-tin bimetallic catalysts supported on alumina and niobia. Aranda et al., 100(1993)77

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Bimetallics

Alkane conversion and topological segregation in PtM/Al₂O₃ catalysts. Coq et al., 82(1992)231

Binary alloys

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Binding energy

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Bismuth

Catalytic oxidative coupling of methane on metal oxides. I. Effect of oxidation state of bismuth and reversibility of lattice oxygen on activity in barium-lanthanum-bismuth oxides. Bhattacharya et al.,

85(1992)135

Selective oxidation of glycerol on a Pt-Bi catalyst. Kimura et al., 96(1993)217

Bismuth oxide

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Bismuth selenide

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

Bismuth-manganese oxide

Characterization of bismuth-manganese catalysts for methane oxidative coupling. Baidikova et al., 89(1992)169

Boria loading

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al.,

93(1992)91

Boron oxide

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al.,

93(1992)91

Brønsted acidity

Method for distinguishing Brønsted-acid sites in mixtures of H-ZSM-5, H-Y and silica—alumina. Pereira et al., 90(1992)145

Brønsted acidity

Catalytic activity of layered α -(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al., 92(1992)81

Brønsted acidity

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Brookite

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

BTX conversion

Examination of de-coking of promoted (Co, Ni) Mo/γ-Al₂O₃ catalysts by X-ray photoelectron spectroscopy. Hughes et al., 90(1992)117

Butadiene

Oxidative dehydrogenation of n-butane to butadiene: effect of different promoters on the performance of V-Mg-O catalysts. Bhattacharyya et al., 87(1992)29

Butane

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Oxidative dehydrogenation of n-butane on iron-zinc oxide catalysts. Armendariz et al., 92(1992)29

n-Butane

Oxidative dehydrogenation of n-butane to butadiene: effect of different promoters on the performance of V-Mg-O catalysts. Bhattacharyya et al., 87(1992)29

Butane aromatization

Gallium containing hybrid catalyst for the aromatization of n-butane. Le Van Mao et al., 86(1992)127

Butane oxidation

Selective oxidation of n-butane to maleic anhydride: A comparative study between promoted and unpromoted VPO catalysts. Bej et al., 83(1992)149

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Butane-2-one

Vanadium oxides as regenerable reagents in the oxidation of butan-2-one to diacetyl. McCullagh et al., 97(1993)39

Butanone oxidation

Selective oxidation of butan-2-one to diacetyl over vanadium pentoxide: An investigation by temporal analysis of products. McCullagh et al., 95(1993)183

Butanone selective oxidation

Kinetic study of the selective oxidation of butan-2-one to diacetyl over vanadium phosphorus oxide. McCullagh et al., 93(1993)203

Butene aromatization

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Butene dehydrogenation

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Butene dehydrogenation

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Butene isomerization

Isomerization of n-butenes to isobutene catalyzed by fluorinated alumina: Reaction kinetics. Szabo et al., 96(1993)319

3,3-dimethyl-1-Butene isomerization

Textural, acidic and catalytic properties of niobium phosphate and of niobium oxide. Influence of the pretreatment temperature. Florentine et al.,

89(1992)143

Butene metathesis

Dimerization of ethene to 2-butene and metathesis with 1-butene by sequential use of homogeneous catalyst systems. Pillai et al., 81(1992)273

Butene oligomerization

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Butene oxidation

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Properties of cobalt-promoted (VO)P₂O₇ in the oxidation of butane. Zazhigalov et al., 96(1993)135

Butene synthesis

Trans-but-2-ene is the first hydrocarbon produced in the conversion of methanol to gasoline over zeolite H-ZSM-5. Sulikowski et al., 89(1992)69

tert-Butyl alcohol

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Butylamine deamination

Deamination of sec-butylamine over acidic zeolites. Lequitte et al., 84(1992)155

1,4-Butynediol

Kinetics of the synthesis of 1,4-butynediol over a copper-bismuth/magnesium silicate catalyst. Chu et al., 97(1993)123

By-product formation

Liquid-phase oxidation of 1-methoxy-2-propanol with air. III. Chemical deactivation and oxygen poisoning of platinum catalysts. Mallat et al., 86(1992)147

C

¹³C NMR

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

C-N hydrogenolysis

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

C₁ chemistry

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Calcium oxide

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Calcium-nickel-potassium

Catalytic low-temperature oxydehydrogenation of methane to higher hydrocarbons with very high selectivity at 8-12% conversion. Rasko et al., 84(1992)57

Calorimetry

Complementary study by calorimetry and infrared spectroscopy of alkali metal doped Pd/SiO₂ solids: Adsorption of hydrogen and carbon monoxide. Gravelle-Rumeau-Mail et al., 98(1993)45

Caprolactam

Factors affecting selectivity in the rearrangement of cyclohexanone oxime to caprolactam over modified aluminas. Curtin et al., 93(1992)75

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al., 93(1992)91

Carbon

Carbon supported bimetallic catalysts containing iron. I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization. Guerrero-Ruiz et al., 81(1992)101

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Nanophase iron carbides as catalysts for carbon dioxide hydrogenation. Trovarelli et al., 95(1993)L9

Carbon black

Preparation of large pore alumina supports for hydrodesulfurization catalysts. Walendziewski et al., 96(1993)163

Carbon dioxide

Control of metal radial profiles in alumina supports by carbon dioxide. Kresge et al., 81(1992)215

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Carbon dioxide absorption

Characterization of lanthanum-modified γ-alumina by X-ray photoelectron spectroscopy and carbon dioxide absorption. Haack et al., 82(1992)199

Carbon dioxide hydrogenation

Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide: Influence of preparation variables on structural and catalytic properties of catalysts. Koeppel et al., 84(1992)77

Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. Neophytides et al., 86(1992)45

Nanophase iron carbides as catalysts for carbon dioxide hydrogenation. Trovarelli et al., 95(1993)L9

Carbon monoxide

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Activity and structural changes of alumina-supported CuO and CuCr₂O₄ catalysts during carbon monoxide oxidation in the presence of water. Lopez Agudo et al., 91(1992)43

Carbon monoxide adsorption

Characterization of nickel species at Ni/γ-Al₂O₃ and Ni/faujasite catalysts by carbon monoxide adsorption. Kubelkova et al., 95(1993)87

Complementary study by calorimetry and infrared spectroscopy of alkali metal doped Pd/SiO₂ solids: Adsorption of hydrogen and carbon monoxide. Gravelle-Rumeau-Mail et al., 98(1993)45

Carbon monoxide hydrogenation

Cobalt/manganese oxide catalysts: Use of chromium promoters for long chain hydrocarbon production. Colley et al., 84(1992)1

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Catalytic properties and crystalline structures of manganese-promoted iron ultrafine particles for liquidphase hydrogenation of carbon monoxide. Itoh et al., 96(1993)125

Carbon monoxide oxidation

Effect of catalyst pretreatment on the oxidation of carbon monoxide over coprecipitated gold catalysts. Tanielyan et al., 85(1992)73

Study on the possible existence of multiplicity features in ethylene hydrogenation over Pt/boehmite catalysts. Han et al., 86(1992)71

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Oxidation of carbon monoxide on platinum-tin dioxide catalysts at low temperatures. Boulahouache et al., 91(1992)115

Activity and infrared studies during carbon monoxide oxidation over bimetallic palladium-rhodium/silica catalysts. Araya et al., 92(1992)17

Oxidation of carbon monoxide on platinum-antimony oxide catalysts. Fuchs et al., 94(1993)85

Carbon monoxide/hydrogen

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Carbon-covered alumina

Influence of coke formation on the aromatization of isophorone. Sai Prasad et al., 83(1992)141

Carbon-covered alumina supports

Preparation of carbon-covered alumina using fluorohydrocarbons: A new acidic support material. Boorman et al., 95(1993)197

Carboxylic acid

Novel direct hydrogenation process of aromatic carboxylic acids to the corresponding aldehydes with zirconia catalyst. Yokoyama et al., 88(1992)149

Catalyst characterization

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Catalyst characterization (AAS, XRD)

Deactivation of ruthenium catalysts in continuous glucose hydrogenation. Arena, 87(1992)219

Catalyst characterization (acidity, BET, Mossbauer spectroscopy, TPD, XRD)

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Catalyst characterization (adsorption, FT-IR, XPS)

Relationship between reduced nickel and activity for benzene hydrogenation on Ni-USY zeolite catalysts. Daza et al., 87(1992)145

Catalyst characterization (adsorption, IR, TPD)

Factors affecting selectivity in the rearrangement of cyclohexanone oxime to caprolactam over modified aluminas. Curtin et al., 93(1992)75

Catalyst characterization (adsorption, SEM, TA, XPS, XRD)

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Catalyst characterization (adsorption, STEM, cyclic voltametry, XPS)

Selective oxidation of methyl- α -D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Catalyst characterization (Auger spectroscopy, STEM/EDX, XRD)

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts. Hamar-Thibault et al., 99(1993)131

Catalyst characterization (BET, TPD, XRD)

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al., 93(1992)91

Catalyst characterization (BET, TPR, HRTEM, EELS, XRD)

Metal-support effects and catalytic properties of platinum supported on zinc aluminate. Aguilar-Rios et al., 90(1992)25

Catalyst characterization (BET, XPS, XRD)

Characterization and catalytic properties of several potassium-doped iron-nickel catalysts. Medina et al., 92(1992)131

Catalyst characterization (DRIFTS)

Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Catalyst characterization (DRIFTS, TPRS)

Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. Neophytides et al., 86(1992)45

Catalyst characterization (DTA, ESR, IR, TG, TPD, XPS, XRD)

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Catalyst characterization (DTA, SEM, TGA, XRD)

Barium modification of a high-silica zeolite for methanol conversion to light alkenes. Abdillahi et al., 91(1992)1

Catalyst characterization (ECS, XPS)

A study of platinum catalysts modified by tin. Lamy-Pitara et al., 81(1992)47

Catalyst characterization (electrical conductivity)

Kinetics of methane oxidative coupling on zinc-doped titanium oxide. Efstathiou et al., 92(1992)1

Catalyst characterization (ESR, UV-visible, XRD),

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Catalyst characterization (FT-IR)

Roles of Brønsted and Lewis sites during cracking of n-octane on H-mordenite. Abbot et al., 85(1992)173

Catalyst characterization (FT-IR, NMR, SEM, TEM, XRD)

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Catalyst characterization (IR, Raman, XPS, XRD)

Catalytic and spectroscopy studies of vanadium oxide supported on group IVb and Vb metal oxides for oxidation of toluene. Huutanen et al., 97(1993)197

Catalyst characterization (hydrogen chemisorption, TEM, XPS)

Removal of chlorine ions from Ru/MgO catalysts for ammonia. Murata et al., synthesis 82(1992)1

Catalyst characterization (IR, XPS)

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Catalyst characterization (Mossbauer spectroscopy, TEM-EDAX)

Carbon supported bimetallic catalysts containing iron. I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Catalyst characterization (nitrogen physisorption, nitrous oxide titration, SEM, TEM, TG/DTA, TPR, XRD)

Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide: Influence of preparation variables on structural and catalytic properties of catalysts. Koeppel et al., 84(1992)77

Catalyst characterization (NMR, Raman, TPR)

Vanadia on titania prepared by vapour deposition of vanadyl alkoxide: Influence of preparation variables on structure and activity for the selective catalytic reduction of nitric oxide by ammonia. Nickl et al.,

98(1993)173

Catalyst characterization (NMR, Raman, XPS)

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

Catalyst characterization (NMR, XRD)

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Catalyst characterization (NO and pyridine adsorption, XPS)

Mo-USY zeolites for hydrodesulphurization. II. Surface properties of sulphided catalysts and activity for thiophene hydrodesulphurization. Anderson et al., 99(1993)55

Catalyst characterization (Raman, XRD)

Oxidative dehydrogenation of propane on vanadium supported on magnesium silicates. Corma et al., 97(1993)159

Catalyst characterization (SEM-EAX, XPS)

Activity and structural changes of alumina-supported CuO and CuCr₂O₄ catalysts during carbon monoxide oxidation in the presence of water. Lopez Agudo et al., 91(1992)43

Catalyst characterization (SEM-EDX, TEM)

Platinum/γ-Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Catalyst characterization (structure, texture)

AlPO₄-Al₂O₃ catalysts with low alumina content. I. Structural and textural characterization of catalysts obtained with aqueous ammonia. Bautista et al., 96(1993)175

Catalyst characterization (TEM, XPS, XRD)

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

Catalyst characterization (TGA, XPS)

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Catalyst characterization (TPD)

Characterization of unsupported cupric oxide and cupric oxide/silica catalysts by temperature-programmed desorption of nitrogen oxide. Shimokawabe et al., 87(1992)205

Temperature-programmed desorption study on supported copper-containing methanol synthesis catalysts. Robinson et al., 98(1993)81

Catalyst characterization (TPR, XPS, XRD)

Surface characterization and catalytic properties of several graphite supported potassium-free and potassium-doped nickel catalysts. Medina et al., 99(1993)115

Catalyst characterization (TPR, XRD)

Preparation and characterization of PdO-MoO₃/γ-Al₂O₃ catalysts. Halasz et al., 82(1992)51

Catalyst characterization (XMPA, XPS)

Bulk and surface analysis of a Fe-P-O oxydehydrogenation catalyst. Barbaux et al., 90(1992)51

Catalyst characterization (XPS)

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Catalyst characterization (XPS, XRD)

Characterization of lanthanum-modified γ-alumina by X-ray photoelectron spectroscopy and carbon dioxide absorption. Haack et al., 82(1992)199

Characterization of high-temperature calcined lanthanum-modified alumina by X-ray photoelectron spectroscopy and X-ray diffraction. Haack et al., 87(1992)103

Catalyst charge size

Study on the possible existence of multiplicity features in ethylene hydrogenation over Pt/boehmite catalysts. Han et al., 86(1992)71

Catalyst deactivation

Deactivation of the high temperature water-gas shift catalyst in nonisothermal conditions. Keiski et al., 87(1992)185

Catalyst precursors

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Catalyst preparation

Characterization of high-temperature calcined lanthanum-modified alumina by X-ray photoelectron spectroscopy and X-ray diffraction. Haack et al., 87(1992)103

Catalyst preparation ((co-)adsorption)

Preparation and characterization of PdO-MoO₃/ γ -Al₂O₃ catalysts. Halasz et al., 82(1992)51

Catalyst preparation (alkali leaching, soaking)

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts. Hamar-Thibault et al., 99(1993)131

Catalyst preparation (co-precipitation, deposition precipitation, impregnation, ion exchange)

Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide: Influence of preparation variables on structural and catalytic properties of catalysts. Koeppel et al., 84(1992)77

Catalyst preparation (co-precipitation, mechanical mixing)

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Catalyst preparation (coprecipitation, evaporation)

Hydrogenation catalysts based on nickel and rare earth oxides. I. Relation between cations nature, preparation route, hydrogen content and catalytic activity. Sohier et al., 84(1992)169

Catalyst preparation (crystallization)

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Catalyst preparation (impregnation)

Characterization of lanthanum-modified γ-alumina by X-ray photoelectron spectroscopy and carbon dioxide absorption. Haack et al., 82(1992)199

Catalyst preparation (impregnation, precipitation)

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

Catalyst preparation (ion exchange, wet impregnation)

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Catalyst preparation (precipitation)

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Catalyst preparation (rutile)

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Catalyst preparation (thermal treatment)

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Catalyst preparation (wet impregnation)

Removal of chlorine ions from Ru/MgO catalysts for ammonia. Murata et al., synthesis 82(1992)1

Catalyst preparation (zeolites)

Synthesis and characterization of defect-free crystals of MFI-type zeolites. Axon et al., 81(1992)27

Catalyst stability

Stability of copper/cobalt catalysts for the synthesis of higher alcohols from syngas. Xu et al., 82(1992)91

Catalytic cracking (gas-oli)

Optimization of zeolite beta in cracking catalysts: Influence of crystallite size. Bonetto et al., 82(1992)37

Catalytic properties

Kinetic interpretation of periodic trends in heterogeneous catalysis. Kasztelan, 83(1992)L1

Catalytic technology

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Catechol

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Ceramic membrane

Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Ceria

Reduction of nitrates by dihydrogen in CeO₂ and Rh/CeO₂ catalysts. Barbier, Jr. et al., 90(1992)11

Ceria

Temperature-programmed reduction: limitation of the technique for determining the extent of reduction of either pure ceria or ceria modified by additives. Zotin et al., 98(1993)99

Ruthenium promotion of Fischer-Tropsch synthesis over coprecipitated cobalt/ceria catalysts. Bruce et al., 100(1993)51

Ceria/alumina

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Cerium

Deamination of sec-butylamine over acidic zeolites. Lequitte et al., 84(1992)155

Cerium oxide

Oxidative dehydrogenation of ethane and the coupling of methane over sodium containing cerium oxides. Kennedy et al., 87(1992)171

CFC treatment

Novel regeneration method of Pt/KL zeolite catalyst for light naphtha reforming. Sugimoto et al., 95(1993)255

Chemical composition

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Chemical equilibria

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15

Chemisorption

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

China

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review Min, E. et al. 95(1993)1

Chlorinated y-alumina

Chlorinated alumina and its catalytic behavior in selective polymerization of isobutene. Cai et al., 97(1993)113

Chlorine

Removal of chlorine ions from Ru/MgO catalysts for ammonia. Murata et al., synthesis 82(1992)1

Role of chlorine in the partial oxidation of methane to ethene on MgO catalysts. Burch et al., 96(1993)289

Chlorine promoters

Investigation of ethene selectivity in the methane coupling reaction on chlorine-containing catalysts. Burch et al., 82(1992)77

Chlorine promotion

Oxidative oligomerization of methane to aromatics. Claridge et al., 89(1992)103

Chlorofluorocarbon

Heterogeneously catalysed dismutation and commutation reactions of CHCl₃-nFn chlorofluorocarbons: A kinetic study. Hess et al., 82(1992)247

Chlorofluorohydrocarbons

Ambient temperature catalytic fluorination of C₁ to C₃ chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Chlorohydrocarbons

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

Chlorohydrocarbons

Ambient temperature catalytic fluorination of C_1 to C_3 chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Chromia pillaring

Catalytic activity of layered α -(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al., 92(1992)81

Chromia/alumina

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

Chromia/zirconia

Propane dehydrogenation on chromia/zirconia catalysts. De Rossi et al., 81(1992)113

Chromium

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts. Hamar-Thibault et al., 99(1993)131

Chromium active species

Propane dehydrogenation on chromia/zirconia catalysts. De Rossi et al., 81(1992)113

Chromium oxide

Catalytic reduction of nitric oxide over amorphous and crystalline chromia. II. Structural dependence of selective and non-selective reactions. Curry-Hyde et al., 90(1992)183

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

Chromium promoter

Cobalt/manganese oxide catalysts: Use of chromium promoters for long chain hydrocarbon production. Colley et al., 84(1992)1

Chromium promotion

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. II. Catalytic properties in the hydrogenation of acetophenone, determination of the reactivity ratios as selectivity criteria. Masson et al., 99(1993)147

Claus reaction

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Co-ZSM-5

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Coadsorption

Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. Neophytides et al., 86(1992)45

Coal oxidation

Active carbons from semianthracites. Ruiz et al., 98(1993)115

Coatings

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Cobalt

Stability of copper/cobalt catalysts for the synthesis of higher alcohols from syngas. Xu et al., 82(1992)91

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Support effects in cobalt-based Fischer-Tropsch catalysis. Bessell, 96(1993)253

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Cobalt boride

Effect of promoter on selective hydrogenation of $\alpha\beta$ -unsaturated aldehydes over cobalt borides. Chen et al., 99(1993)85

Cobalt oxide

Ruthenium promotion of Fischer-Tropsch synthesis over coprecipitated cobalt/ceria catalysts. Bruce et al., 100(1993)51

Cobalt promotion

Properties of cobalt-promoted (VO)P₂O₇ in the oxidation of butane. Zazhigalov et al., 96(1993)135

Cobalt/alumina

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Cobalt/carbon

Sulfidation and acidity of Co/C catalysts having extremely low cobalt-loading: A Mössbauer emission spectroscopy and thiophene hydrodesulphurization study. Crajé et al., 100(1993)97

Cobalt/manganese oxide

Cobalt/manganese oxide catalysts: Use of chromium promoters for long chain hydrocarbon production. Colley et al., 84(1992)1

Cobalt-magnesium oxide

Low-temperature selctive oxidation of methane to carbon monoxide and hydrogen over cobalt-MgO catalysts. Choudhary et al., 90(1992)L1

Cobalt-molybdenum oxide

Water-gas shift reaction on a cobalt-molybdenum oxide catalyst. Hakkarainen et al., 99(1993)195

Cobalt-molybdenum/alumina

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Structure and activity of a CoMo/Al₂O₃ catalyst upon modification by gamma irradiation. Vladov et al., 94(1993)205

Cobaltite

Alumina-supported zinc-cobalt spinel oxide catalyst for combustion of acetone, toluene and styrene. Klissurski et al., 95(1993)103

Coke

Coke formation in high-silica zeolites — a review. Bibby et al., 93(1992)1

Adsorption, acid and catalytic changes induced in ZSM-5 by coking with different hydrocarbons. Uguina et al., 99(1993)97

Coke deposition

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Coke formation

Influence of coke formation on the aromatization of isophorone. Sai Prasad et al., 83(1992)141

Coke formation

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Coking

Nickel passivation on fluidised cracking catalysts with different antimony complexes. Corma et al., 85(1992)61

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Combustion

Catalytic chemistry of supported palladium for combustion of methane. Farrauto et al., 81(1992)227

Combustion catalyst

Alumina aerogel for support of a methane combustion catalyst. Mizushima et al., 88(1992)137

Alumina-supported zinc-cobalt spinel oxide catalyst for combustion of acetone, toluene and styrene. Klissurski et al., 95(1993)103

Commercialized catalytic processes

Recent progress in catalytic technology in Japan (supplement) – a review. Nojiri et al., 93(1993)103

Composite catalyst

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Composites

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Catalyst dispersion on supported ultramicroporous inorganic membranes using derivatized silylation agents. Raman et al., 96(1993)65

Condensation

Methacrylic acid synthesis. I. Condensation of propionic acid with formaldehyde over alkali metal cation on silica catalysts. Bailey et al., 88(1992)163

Conmutation

Heterogeneously catalysed dismutation and commutation reactions of CHCl₃-nFn chlorofluorocarbons: A kinetic study. Hess et al., 82(1992)247

Coordination catalysis

Catalytic behavior of NiSO₄/γ-Al₂O₃ for ethene dimerization. Cai et al., 95(1993)L1

Copper

Influence of copper on physico-chemical and catalytic properties of ZSM-5 zeolites in the reaction of ethene aromatization. Arishtirova et al., 81(1992)15

Stability of copper/cobalt catalysts for the synthesis of higher alcohols from syngas. Xu et al., 82(1992)91

Ammoxidation of toluene over CuNa-ZSM-5. Kim et al., 85(1992)47

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Reliability of pulse-chromatographic nitrous oxide titrations of the copper surface area on Cu-ZnO-MeO_x catalysts in connection with the characterization of their thermostability. Berndt et al., 86(1992)65

Acetic acid and methyl acetate formation from methanol alone over ruthenium(II)-tin(II) cluster complex catalysts supported on copper-containing oxide. Yamakawa et al., 92(1992)L1

Higher alcohol synthesis on modified iron based catalysts: Copper and molybdenum addition. Kiennemann et al., 99(1993)175

Copper catalyst

Oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide. Takac et al., 95(1993)35

Copper chromite

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15

Copper oxide

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Copper(II) oxide/alumina

Activity and structural changes of alumina-supported CuO and CuCr₂O₄ catalysts during carbon monoxide oxidation in the presence of water. Lopez Agudo et al., 91(1992)43

Copper-based catalysts

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Copper-chromite

Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Copper/alumina

Influence of sulphur poisoning of copper/alumina catalyst on the selective hydrogenation of crotonaldehyde. Hutchings et al., 83(1992)L7

Copper/copper oxide

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Copper/rare earth

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Copper/silica

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

Copper/zinc oxide

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Copper/zinc oxide/alumina

Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. Neophytides et al., 86(1992)45

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Temperature-programmed desorption study on supported copper-containing methanol synthesis catalysts. Robinson et al., 98(1993)81

Copper/zinc oxide/carbon

Temperature-programmed desorption study on supported copper-containing methanol synthesis catalysts. Robinson et al., 98(1993)81

Copper/zinc oxide/silica

Temperature-programmed desorption study on supported copper-containing methanol synthesis catalysts. Robinson et al., 98(1993)81

Copper/zirconia

Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide: Influence of preparation variables on structural and catalytic properties of catalysts. Koeppel et al., 84(1992)77

Copper-bismuth/magnesium silicate

Kinetics of the synthesis of 1,4-butynediol over a copper-bismuth/magnesium silicate catalyst. Chu et al., 97(1993)123

Copper-chromium/alumina

Activity and structural changes of alumina-supported CuO and CuCr₂O₄ catalysts during carbon monoxide oxidation in the presence of water. Lopez Agudo et al., 91(1992)43

Copper-manganese oxides

Characterization of mixed copper-manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

Corrosion

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Cracking

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al.,

86(1992)83

Roles of Brønsted and Lewis sites during cracking of n-octane on H-mordenite. Abbot et al., 85(1992)173

Conversion of light alkanes into aromatic hydrocarbons. VI. Aromatization of C₂-C₄ alkanes on H-ZSM-5 - Reaction mechanisms. Guisnet et al., 87(1992)255

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Calorimetric and catalytic investigation of alkanes reactivity over a variety of MFI structures. Auroux et al., 93(1993)181

Residual oil cracking with generation of hydrogen: Deactivation of iron oxide catalyst in the steam-iron reaction. Fukase et al., 100(1993)1

Cracking catalysts

New silica-alumina-magnesia FCC active matrix and its possibilities as a basic nitrogen passivating compound. Corma et al., 84(1992)31

Cracking mechanism

Activity of vanadium on different catalyst supports. Lee, 82(1992)215

Crotonaldehyde

Influence of sulphur poisoning of copper/alumina catalyst on the selective hydrogenation of crotonaldehyde. Hutchings et al., 83(1992)L7

Crystallization

Parameters affecting the synthesis of titanium silicalite 1. van der Pol et al., 92(1992)93

Cu-ZSM-5

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Cumene hydrocracking

Preparation of carbon-covered alumina using fluorohydrocarbons: A new acidic support material. Boorman et al., 95(1993)197

Cumene synthesis

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Cupric oxide

Characterization of unsupported cupric oxide and cupric oxide/silica catalysts by temperature-programmed desorption of nitrogen oxide. Shimokawabe et al., 87(1992)205

Cupric oxide/silica

Characterization of unsupported cupric oxide and cupric oxide/silica catalysts by temperature-programmed desorption of nitrogen oxide. Shimokawabe et al., 87(1992)205

Cyclodimers

Heterogeneously catalysed gas phase oxidations of 1,3-pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Cyclohexane

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Cyclohexanol

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Cyclohexanol oxidation

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Cyclohexanone

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Influence of boria loading on the activity of B_2O_3/Al_2O_3 catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al.,

93(1992)91

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Cyclohexanone oxime

Factors affecting selectivity in the rearrangement of cyclohexanone oxime to caprolactam over modified aluminas. Curtin et al., 93(1992)75

Cyclohexene

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Liquid-phase catalytic hydrogenation using palladium alloy membranes. Farris et al., 96(1993)25

para-Cymene

Toluene isopropylation over zeolite b and metallosilicates of MFI structure. Parikh et al., 90(1992)1

D

De-coking

Examination of de-coking of promoted (Co, Ni) Mo/γ-Al₂O₃ catalysts by X-ray photoelectron spectroscopy. Hughes et al., 90(1992)117

Deactivation

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

Effects of diffusion resistance on some isoprene production processes over decaying catalysts. Kumbilieva et al., 82(1992)159

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

Metathesis of 1-alkenes in the liquid phase over a Re₂O₇/γ-Al₂O₃ catalyst. Spronk et al., II. Kinetics of deactivation 83(1992)213

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

Liquid-phase oxidation of 1-methoxy-2-propanol with air. III. Chemical deactivation and oxygen poisoning of platinum catalysts. Mallat et al., 86(1992)147

Deactivation of ruthenium catalysts in continuous glucose hydrogenation. Arena, 87(1992)219

Selective oxidation of methyl- α -D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Coke formation in high-silica zeolites — a review. Bibby et al., 93(1992)1

Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Isomerization of n-butenes to isobutene catalyzed by fluorinated alumina: Reaction kinetics. Szabo et al., 96(1993)319

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

Adsorption, acid and catalytic changes induced in ZSM-5 by coking with different hydrocarbons. Uguina et al., 99(1993)97

Decarbonylation

Decarbonylation of methyl formate over heterogeneous catalysts. I. Activity and selectivity. Lee et al., 83(1992)165

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15

Decomposition

Catalytic decomposition of nitrogen dioxide over various metal oxides. Shimokawabe et al., 85(1992)129

Decoration of nickel chrystallites

Morphology of coprecipitated nickel/alumina catalysts with low alumina content. Zielínsky, 94(1993)107

Deep desulphurization

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Deep oxidation

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

Dehydration

Dehydration of (DPA) VPI-5: In situ variable temperature multinuclear NMR investigations. Maistriau et al., 81(1992)67

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Dehydrocyclization

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

Dehydrogenation

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Conversion of light alkanes into aromatic hydrocarbons. VI. Aromatization of C₂-C₄ alkanes on H-ZSM-5 - Reaction mechanisms. Guisnet et al., 87(1992)255

Metal-support effects and catalytic properties of platinum supported on zinc aluminate. Aguilar-Rios et al., 90(1992)25

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Reaction mechanism of methanol dehydrogenation on a sodium carbonate catalyst. Su et al., 91(1992)131

Demethanation

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

DeNO_x

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Design of catalysts

Reaction-path analysis of a homogeneous methane oxidative coupling mechanism. Tjatjopoulos et al., 88(1992)213

Desulphurization

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Diacetyl

Selective oxidation of butan-2-one to diacetyl over vanadium pentoxide: An investigation by temporal analysis of products. McCullagh et al., 95(1993)183

Dibenzothiophene

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Diethylbenzene

Preparation of highly *para*-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

Diffuse reflectance spectroscopy

Effects of calcination program and rehydration on palladium dispersion in zeolites NaY and 5A. Zhang et al., 89(1992)155

Diffusion limitation

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Why are some titanium silicalite-1 samples active and others not?. van der Pol et al., 92(1992)113

Difussional retardation

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263

Dihydroxyacetone

Selective oxidation of glycerol on a Pt-Bi catalyst. Kimura et al., 96(1993)217

2,6-Dimethylaniline

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

4,6-Dimethyldibenzothiophene

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Dinitrogen monoxide

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Dioctyl phthalate

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Direct Fries Reaction

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Dismutation

Heterogeneously catalysed dismutation and commutation reactions of CHCl₃-nFn chlorofluorocarbons: A kinetic study. Hess et al., 82(1992)247

Dispersed catalyst

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst – a Review. Del Bianco et al., 94(1993)1

Dispersion

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Support effects in cobalt-based Fischer–Tropsch catalysis. Bessell, 96(1993)253

Disproportionation

Heterogeneously catalysed dismutation and commutation reactions of CHCl₃-nFn chlorofluorocarbons: A kinetic study. Hess et al., 82(1992)247

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Dissolution

Selective oxidation of methyl- α -D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Doped bismuth oxide

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Double structure catalyst

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Double-stage reactor

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

E

Electron microscopy

High-resolution electron microscopy study of phosphorus-containing MoS₂/Al₂O₃ hydrotreating catalysts. Ramirez et al., 83(1992)251

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

Electron paramagentic resonance

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

Electron spin resonance

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

Electron transfer

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

Emission control catalysts

Recent progress in catalytic technology in Japan (supplement) – a review. Nojiri et al., 93(1993)103

Enantioselective hydrogenation

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Environment

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Epitaxy

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Epoxidation

Reaction network for the epoxidation reaction of alkenes with organic hydroperoxides. Kaminski et al., 88(1992)1

Erbium

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Erionite

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Esterification

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Ethanal

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Ethane

Role of surface acidity on vanadia/silica catalysts used in the oxidative dehydrogenation of ethane. Le Bars et al., 88(1992)179

Oxydehydrogenation of ethane over ZSM-5 zeolite catalysts: Effect of steam. Chang et al., 96(1993)305

Ethane dehydrogenation

Homogeneous and heterogeneous contributions to the catalytic oxidative dehydrogenation of ethane. Burch et al., 97(1993)49

Ethane oxidation

Oxidative dehydrogenation of ethane and the coupling of methane over sodium containing cerium oxides. Kennedy et al., 87(1992)171

Ethanol

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Kinetic and transient kinetic investigations of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)77

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Ethene

Influence of copper on physico-chemical and catalytic properties of ZSM-5 zeolites in the reaction of ethene aromatization. Arishtirova et al., 81(1992)15

Oxidation of ethylene to acetaldehyde over a heterogenized surface-vanadate Wacker catalyst in the absence of gaseous oxygen. Van der Heide et al., 86(1992)181

Ethene dimerization

Dimerization of ethene to 2-butene and metathesis with 1-butene by sequential use of homogeneous catalyst systems. Pillai et al., 81(1992)273

Catalytic behavior of NiSO₄/γ-Al₂O₃ for ethene dimerization. Cai et al., 95(1993)L1

Ethene homologation

Catalytic properties of Mo(CO)₆ supported on activated carbon for ethene homologation. Nakamura et al., 87(1992)69

Ethene hydrogenation

Study on the possible existence of multiplicity features in ethylene hydrogenation over Pt/boehmite catalysts. Han et al., 86(1992)71

Ether carboxylate

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

Ethylbenzene

Hydrodealkylation reaction of ethylbenzene over a supported nickel-tungsten catalyst. Song et al., 83(1992)75

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Preparation of highly *para*-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

Ethylbenzene alkylation

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

Ethylbenzene decomposition

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

Ethylbenzene dehydrogenation

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Ethylene epoxidation

Rhenium as a promoter for ethylene epoxidation. Yang et al., 92(1992)73

Ethylene glycol

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

2-Ethylenebicyclo[2.2.1]hept-2-ene

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Europium oxide

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

EuroPt-1

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

EUROTS-1

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Exhaust-gas

Selective reduction of nitrogen oxides under oxidising exhaust-gas conditions. Bennett et al., 86(1992)L1

F

FCC

New silica-alumina-magnesia FCC active matrix and its possibilities as a basic nitrogen passivating compound. Corma et al., 84(1992)31

FCC alkene production

Optimization of zeolite beta in cracking catalysts: Influence of crystallite size. Bonetto et al., 82(1992)37

FCC catalysts

Optimization of zeolite beta in cracking catalysts: Influence of crystallite size. Bonetto et al., 82(1992)37

Fe-ZSM-5

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

Oxidation of benzene to phenol by nitrous oxide over Fe-ZSM-5 zeolites. Panov et al., 82(1992)31

Ferrisilicates

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Ferrite

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Fischer-Tropsch synthesis

Cobalt/manganese oxide catalysts: Use of chromium promoters for long chain hydrocarbon production. Colley et al., 84(1992)1

Support effects in cobalt-based Fischer-Tropsch catalysis. Bessell, 96(1993)253

Properties and catalytic behaviour for the Fischer-Tropsch synthesis of amorphous iron-based alloys prepared by spark-erosion. Coteron et al., 95(1993)237

Catalytic properties and crystalline structures of manganese-promoted iron ultrafine particles for liquidphase hydrogenation of carbon monoxide. Itoh et al., 96(1993)125

Ruthenium promotion of Fischer-Tropsch synthesis over coprecipitated cobalt/ceria catalysts. Bruce et al., 100(1993)51

Fluid catalytic cracking

Nickel passivation on fluidised cracking catalysts with different antimony complexes. Corma et al., 85(1992)61

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Fluidized bed

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

Fluoride ion

Anion treatment (F or SO₄²) of AlPO₄-Al₂O₃ (25 wt.-% Al₂O₃) catalysts. IV. Catalytic performance in the alkylation of phenol with methanol. Bautista et al., 99(1993)161

Fluorinated y-alumina

Ambient temperature catalytic fluorination of C₁ to C₃ chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Fluorinated alumina

Isomerization of n-butenes to isobutene catalyzed by fluorinated alumina: Reaction kinetics. Szabo et al., 96(1993)319

Fluorination

Ambient temperature catalytic fluorination of C₁ to C₃ chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Fluorohydrocarbon

Preparation of carbon-covered alumina using fluorohydrocarbons: A new acidic support material. Boorman et al., 95(1993)197

Folding structural

Effect of thermal treatment of the support of platinum/palygorskite catalysts on hydrogen chemisorption. González et al., 87(1992)231

Formaldehyde

Methacrylic acid synthesis. I. Condensation of propionic acid with formaldehyde over alkali metal cation on silica catalysts. Bailey et al., 88(1992)163

Reaction mechanism of methanol dehydrogenation on a sodium carbonate catalyst. Su et al., 91(1992)131

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Formate

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Fourier transform IR

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Characterization of nickel species at Ni/γ-Al₂O₃ and Ni/faujasite catalysts by carbon monoxide adsorption. Kubelkova et al., 95(1993)87

Friedel-Craft reaction

Benzylation of toluene by benzyl chloride over protonic zeolites. Coq et al., 100(1993)69

Fries rearrangement

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Furfural selective oxidation

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Fused iron catalysts

Influence of aluminium and potassium on activity and texture of fused iron catalysts for ammonia synthesis. Kowalczyk et al., 87(1992)1

G

GaH-ZSM-5

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Gallium

Effects of pretreatments on state of gallium and aromatization activity of gallium/ZSM-5 catalysts. Dooley et al., 84(1992)17

Gallium containing hybrid catalyst for the aromatization of n-butane. Le Van Mao et al., 86(1992)127

Gallium active species

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Gallium-zeolite

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Gallosilicates

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Gamma irradiation

Structure and activity of a CoMo/Al₂O₃ catalyst upon modification by gamma irradiation. Vladov et al., 94(1993)205

Gas chromatography

Trans-but-2-ene is the first hydrocarbon produced in the conversion of methanol to gasoline over zeolite H-ZSM-5. Sulikowski et al., 89(1992)69

Gas-phase reactions

Homogeneous and heterogeneous contributions to the catalytic oxidative dehydrogenation of ethane. Burch et al., 97(1993)49

Gasoil cracking

New silica-alumina-magnesia FCC active matrix and its possibilities as a basic nitrogen passivating compound. Corma et al., 84(1992)31

Gasoline

Optimization of zeolite beta in cracking catalysts: Influence of crystallite size. Bonetto et al., 82(1992)37

Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Gasoline synthesis

Trans-but-2-ene is the first hydrocarbon produced in the conversion of methanol to gasoline over zeolite H-ZSM-5. Sulikowski et al., 89(1992)69

GC analysis

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

Georgeite

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Glassy alloy

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Glucose hydrogenation

Deactivation of ruthenium catalysts in continuous glucose hydrogenation. Arena, 87(1992)219

Glucoside oxidation

Selective oxidation of methyl α -D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Selective oxidation of methyl- α -D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Glycerol oxidation

Selective oxidation of glycerol on a Pt-Bi catalyst. Kimura et al., 96(1993)217

Gold

Effect of catalyst pretreatment on the oxidation of carbon monoxide over coprecipitated gold catalysts. Tanielyan et al., 85(1992)73

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Graph theory

Reaction network for the epoxidation reaction of alkenes with organic hydroperoxides. Kaminski et al., 88(1992)1

Group VIII metals

Selective steam reforming of aromatic compounds on metal catalysts — a review. Duprez, 82(1992)111

Carbon supported bimetallic catalysts containing iron. I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization. Guerrero-Ruiz et al., 81(1992)101

H

H-ZSM-5

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Halocarbon treatment

Improvement of platinum-supported zeolite catalysts for n-hexane aromatization by halocarbon treatment and alkaline soaking. Sugimoto et al., 96(1993)201

HDS

Examination of de-coking of promoted (Co, Ni) Mo/γ-Al₂O₃ catalysts by X-ray photoelectron spectroscopy. Hughes et al., 90(1992)117

Heat effect

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Heat of adsorption

Acidity of a microporous amorphous alumina measured by intermittent temperature-programmed desorption of ammonia. Joly et al., 98(1993)61

Heavy oil

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst – a Review. Del Bianco et al., 94(1993)1

Hematite

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Heptane

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Heterogeneous catalysis

Some innovative aspects in the production of monomers via catalyzed oxidation processes — a Review. Cavani et al., 88(1992)115

Homogeneous and heterogeneous contributions to the catalytic oxidative dehydrogenation of ethane. Burch et al., 97(1993)49

Heteropoly acids

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Hexane

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

n-Hexane

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

n-Hexane aromatization

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al.,

86(1992)115

Improvement of platinum-supported zeolite catalysts for n-hexane aromatization by halocarbon treatment and alkaline soaking. Sugimoto et al., 96(1993)201

Hexane reforming

Role of sulfur in a skewed reforming catalyst with a low platinum content and a high rhenium-to-platinum ratio. Chen et al., 97(1993)133

1-Hexene

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

High-resolution electron microscopy

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

High-silica zeolites

Barium modification of a high-silica zeolite for methanol conversion to light alkenes. Abdillahi et al., 91(1992)1

Catalytic properties of high-silica zeolites synthesized in mixtures of water and organic solvent. Sugimoto et al., 87(1992)15

Coke formation in high-silica zeolites — a review. Bibby et al., 93(1992)1

Higher alcohol synthesis

Stability of copper/cobalt catalysts for the synthesis of higher alcohols from syngas. Xu et al., 82(1992)91

Homogeneous catalysis

Some innovative aspects in the production of monomers via catalyzed oxidation processes — a Review. Cavani et al., 88(1992)115

Homogeneous and heterogeneous contributions to the catalytic oxidative dehydrogenation of ethane. Burch et al., 97(1993)49

Homogeneous and heterogeneous contributions to the oxidative dehydrogenation of propane on oxide catalysts. Burch et al., 100(1993)111

Hopcalite

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

HPLC analysis

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

HY zeolite

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Hybrid catalyst

Hydroisomerization of n-pentane over hybrid catalysts containing a supported hydrogenation catalyst. Fujimoto et al., 91(1992)81

Hydride-forming alloys

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Hydrocarbon cracking

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Hydrocarbon oxidation

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

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Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Hydrocarbons

Properties and catalytic behaviour for the Fischer-Tropsch synthesis of amorphous iron-based alloys prepared by spark-erosion. Coteron et al., 95(1993)237

Hydroconversion

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst — a Review. Del Bianco et al., 94(1993)1

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Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Phosphorus promotion in nickel-molybdenum/alumina catalysts: Model compound reactions and gas oil hydroprocessing. Lewis et al., 84(1992)103

Preparation of carbon-covered alumina using fluorohydrocarbons: A new acidic support material. Boorman et al., 95(1993)197

Hydrodealkylation

Hydrodealkylation reaction of ethylbenzene over a supported nickel-tungsten catalyst. Song et al., 83(1992)75

Hydrodenitrogenation

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

Hydrodesulphurization

Phosphorus promotion in nickel-molybdenum/alumina catalysts: Model compound reactions and gas oil hydroprocessing. Lewis et al., 84(1992)103

Examination of de-coking of promoted (Co, Ni) Mo/γ-Al₂O₃ catalysts by X-ray photoelectron spectroscopy. Hughes et al., 90(1992)117

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Preparation of large pore alumina supports for hydrodesulfurization catalysts. Walendziewski et al., 96(1993)163

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Sulfidation and acidity of Co/C catalysts having extremely low cobalt-loading: A Mössbauer emission spectroscopy and thiophene hydrodesulphurization study. Crajé et al., 100(1993)97

Hydroformylation

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

Hydrogen adsorption

Complementary study by calorimetry and infrared spectroscopy of alkali metal doped Pd/SiO₂ solids: Adsorption of hydrogen and carbon monoxide. Gravelle-Rumeau-Mail et al., 98(1993)45

Hydrogen bond

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Hydrogen chemisorption

Effect of thermal treatment of the support of platinum/palygorskite catalysts on hydrogen chemisorption. González et al., 87(1992)231

Hydrogen fluoride

Ambient temperature catalytic fluorination of C₁ to C₃ chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Hydrogen formation

Hydrogen formation in propane oxidation on Pt-Rh/CeO₂/Al₂O₃ catalysts. Barbier, Jr. et al., 85(1992)89

Hydrogen peroxide

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Hydrogen production

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Hydrogen removal

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Hydrogen spillover

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Oxidation of ethylene to acetaldehyde over a heterogenized surface-vanadate Wacker catalyst in the absence of gaseous oxygen. Van der Heide et al., 86(1992)181

Gallium containing hybrid catalyst for the aromatization of n-butane. Le Van Mao et al., 86(1992)127

Hydroisomerization of n-pentane over hybrid catalysts containing a supported hydrogenation catalyst. Fujimoto et al., 91(1992)81

Hydrogen storage

Hydrogenation catalysts based on nickel and rare earth oxides. I. Relation between cations nature, preparation route, hydrogen content and catalytic activity. Sohier et al., 84(1992)169

Hydrogen sulphide

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Hydrogen transfer

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Hydrogenation

A study of platinum catalysts modified by tin. Lamy-Pitara et al., 81(1992)47

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Influence of sulphur poisoning of copper/alumina catalyst on the selective hydrogenation of crotonaldehyde. Hutchings et al., 83(1992)L7

Hydrogenation catalysts based on nickel and rare earth oxides. I. Relation between cations nature, preparation route, hydrogen content and catalytic activity. Sohier et al., 84(1992)169

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Novel direct hydrogenation process of aromatic carboxylic acids to the corresponding aldehydes with zirconia catalyst. Yokoyama et al., 88(1992)149

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Regeneration of a nickel/silica catalyst poisoned by thiophene. Aguinaga et al., 90(1992)131

Platinum/ γ -Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Liquid-phase catalytic hydrogenation using palladium alloy membranes. Farris et al., 96(1993)25

Characterization and catalytic properties of several potassium-doped iron-nickel catalysts. Medina et al., 92(1992)131

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Hydrogenation of phenol over supported platinum and palladium catalysts. Talukdar et al., 96(1993)229

Effect of promoter on selective hydrogenation of $\alpha \beta$ -unsaturated aldehydes over cobalt borides. Chen et al., 99(1993)85

Surface characterization and catalytic properties of several graphite supported potassium-free and potassium-doped nickel catalysts. Medina et al., 99(1993)115

Hydrogenolysis

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Alkane conversion and topological segregation in PtM/Al₂O₃ catalysts. Coq et al., 82(1992)231

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15

Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

Hydrophilicity of ruthenium

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

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Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Hydroprocessing

Phosphorus promotion in nickel-molybdenum/alumina catalysts: Model compound reactions and gas oil hydroprocessing. Lewis et al., 84(1992)103

Hydroquinone

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Hydrothermal crystallization

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Hydrothermal treatment

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

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Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

High-resolution electron microscopy study of phosphorus-containing MoS₂/Al₂O₃ hydrotreating catalysts. Ramirez et al., 83(1992)251

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Solid-state nuclear magnetic resonance spectroscopic investigation of hydrotreating catalysts and related materials. Han et al., 98(1993)195

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Hydrous metal oxides

Reactivity of novel ion-exchanged nickel/hydrous titanate catalysts. Anderson et al., 82(1992)185

Hydroxide-carbonate precursor

Alumina-supported zinc-cobalt spinel oxide catalyst for combustion of acetone, toluene and styrene. Klissurski et al., 95(1993)103

Hydroxycarbonate

Alkylation of phenol with methanol over Mn₃O₄. Bezouhanova et al., 83(1992)45

Hydroxylation

Catalytic hydroxylation of phenol over vanadium silicate molecular sieve with MEL structure. Hari Prasad Rao et al., 93(1993)123

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Hydroxylation of phenol

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

I

Impregnated ceria

Temperature-programmed reduction: limitation of the technique for determining the extent of reduction of either pure ceria or ceria modified by additives. Zotin et al., 98(1993)99

Impregnation

Control of metal radial profiles in alumina supports by carbon dioxide. Kresge et al., 81(1992)215

In-situ FT-IR

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Industrial environment

Some innovative aspects in the production of monomers via catalyzed oxidation processes — a Review. Cavani et al., 88(1992)115

Infrared

Direct partial oxidation of benzene to phenol on zeolite catalysts. Burch et al., 86(1992)139

Activity and infrared studies during carbon monoxide oxidation over bimetallic palladium-rhodium/silica catalysts. Araya et al., 92(1992)17

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

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Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

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Effect of WO₃ loading on the surface acidity of WO₃/Al₂O₃ composite oxides. Zhang et al., 84(1992)123

Iron

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Properties and catalytic behaviour for the Fischer–Tropsch synthesis of amorphous iron-based alloys prepared by spark-erosion. Coteron et al., 95(1993)237

Nanophase iron carbides as catalysts for carbon dioxide hydrogenation. Trovarelli et al., 95(1993)L9

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

Higher alcohol synthesis on modified iron based catalysts: Copper and molybdenum addition. Kiennemann et al., 99(1993)175

Iron carbides

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Iron oxide

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Methanol oxidation on a monolayer supported on iron oxide. Yamada et al., 96(1993)113

Residual oil cracking with generation of hydrogen: Deactivation of iron oxide catalyst in the steam-iron reaction. Fukase et al., 100(1993)1

Iron oxide promotion

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Iron oxide/chromium oxide

Deactivation of the high temperature water-gas shift catalyst in nonisothermal conditions. Keiski et al., 87(1992)185

Iron oxide-silica

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Iron-chromium silicate

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Iron-phosphorus oxide

Bulk and surface analysis of a Fe-P-O oxydehydrogenation catalyst. Barbaux et al., 90(1992)51

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Iron-zinc oxide

Oxidative dehydrogenation of n-butane on iron-zinc oxide catalysts. Armendariz et al., 92(1992)29

Iron-manganese

Catalytic properties and crystalline structures of manganese-promoted iron ultrafine particles for liquidphase hydrogenation of carbon monoxide. Itoh et al., 96(1993)125

Iron-palladium

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Isobutane

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Isobutene

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Isobutene polymerization

Chlorinated alumina and its catalytic behavior in selective polymerization of isobutene. Cai et al., 97(1993)113

Isobutyraldehyde

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Isobutyric acid oxydehydrogenation

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Isomerization

Isomerization of xylene isomers on a PtRe-H-mordenite catalyst. Aboul-Gheit et al., 93(1993)131

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Hydroisomerization of n-pentane over hybrid catalysts containing a supported hydrogenation catalyst. Fujimoto et al., 91(1992)81

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Isophorone

Influence of coke formation on the aromatization of isophorone. Sai Prasad et al., 83(1992)141

Isoprene production

Effects of diffusion resistance on some isoprene production processes over decaying catalysts. Kumbilieva et al., 82(1992)159

Isopropanol decomposition

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Isopropanol dehydration

Comparative study of the effects of sodium impurity and amorphisation on the Lewis acidity of γ -alumina. Mohammed Saad et al., 94(1993)71

2-Isopropylnaphthalene oxidation

Oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide. Takac et al., 95(1993)35

2-Isopropylnaphthalenehydroperoxide

Oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide. Takac et al., 95(1993)35

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Japan

Recent progress in catalytic technology in Japan (supplement) — a review. Nojiri et al., 93(1993)103

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Metathesis of 1-alkenes in the liquid phase over a Re₂O₇/γ-Al₂O₃ catalyst. Spronk et al., II. Kinetics of deactivation 83(1992)213

Some fundamental and practical aspects of the ammoxidation of alkylbenzenes. Rizayev et al., 83(1992)103

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al., 85(1992)13

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

Deactivation of the high temperature water-gas shift catalyst in nonisothermal conditions. Keiski et al., 87(1992)185

Selective reduction of nitrogen oxides under oxidising exhaust-gas conditions. Bennett et al., 86(1992)L1

Reaction network for the epoxidation reaction of alkenes with organic hydroperoxides. Kaminski et al., 88(1992)1

Kinetic and transient kinetic investigations of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)77

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

Selective oxidation of methyl α-D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Kinetics of methane oxidative coupling on zinc-doped titanium oxide. Efstathiou et al., 92(1992)1

Kinetic study of the selective oxidation of butan-2-one to diacetyl over vanadium phosphorus oxide. McCullagh et al., 93(1993)203

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide. Takac et al., 95(1993)35

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Complete oxidation of benzene on manganese dioxide by ozone. Naydenov et al., 97(1993)17

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Kinetics of the synthesis of 1,4-butynediol over a copper-bismuth/magnesium silicate catalyst. Chu et al., 97(1993)123 Water-gas shift reaction on a cobalt-molybdenum oxide catalyst. Hakkarainen et al., 99(1993)195

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Novel regeneration method of Pt/KL zeolite catalyst for light naphtha reforming. Sugimoto et al., 95(1993)255

Lamellar perovskites

Lamellar perovskites M^I(A_{n-1}B_nO_{3n+1}) catalysts for oxidative coupling of methane. Barrault et al., 88(1992)197

Langmuir parameters

Selective oxidation of methyl α -D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Lanthana

Temperature-programmed study of the oxidation of palladium/alumina catalysts and their lanthanum modification. Hoost et al., 92(1992)39

Lanthanum aluminate

Characterization of high-temperature calcined lanthanum-modified alumina by X-ray photoelectron spectroscopy and X-ray diffraction. Haack et al., 87(1992)103

Lanthanum oxide

Effect of sulfur on the oxidative coupling of methane over a lanthana catalyst. Campbell et al., 82(1992)13

Comparison of lanthanum oxide and strontium-modified lanthanum oxide catalysts for the oxidative coupling of methane. Conway et al., 86(1992)199

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

Lanthanum oxysulphate

Effect of sulfur on the oxidative coupling of methane over a lanthana catalyst. Campbell et al., 82(1992)13

Lanthanum-\(\beta\)-alumina

Characterization of high-temperature calcined lanthanum-modified alumina by X-ray photoelectron spectroscopy and X-ray diffraction. Haack et al., 87(1992)103

Lanthanum/alumina

Characterization of lanthanum-modified γ-alumina by X-ray photoelectron spectroscopy and carbon dioxide absorption. Haack et al., 82(1992)199

Characterization of high-temperature calcined lanthanum-modified alumina by X-ray photoelectron spectroscopy and X-ray diffraction. Haack et al., 87(1992)103

Large pores

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Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Lead oxide/lead aluminate

Oxidative coupling of methane over γ -alumina-supported lead oxide catalyst. Park et al., 85(1992)117

Lewis acidity

Catalytic activity of layered α-(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al., 92(1992)81

Comparative study of the effects of sodium impurity and amorphisation on the Lewis acidity of γ -alumina. Mohammed Saad et al., 94(1993)71

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Light alkenes

Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Light oils

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

Liquid phase

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Liquid-phase oxidation

Liquid-phase oxidation of 1-methoxy-2-propanol with air. III. Chemical deactivation and oxygen poisoning of platinum catalysts. Mallat et al., 86(1992)147

Lithium

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Lithium

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Homogeneous and heterogeneous contributions to the oxidative dehydrogenation of propane on oxide catalysts. Burch et al., 100(1993)111

Lithium doping

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Lithium/magnesium oxide

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Low-temperatue oxidation

Effect of catalyst pretreatment on the oxidation of carbon monoxide over coprecipitated gold catalysts. Tanielyan et al., 85(1992)73

Low-temperature oxydehydrogenation

Catalytic low-temperature oxydehydrogenation of methane to higher hydrocarbons with very high selectivity at 8-12% conversion. Rasko et al., 84(1992)57

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Maghemite

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Magnesia

Stabilized magnesia as a support for nickel methanation catalysts. Rathousky et al., 94(1993)167

Role of chlorine in the partial oxidation of methane to ethene on MgO catalysts. Burch et al., 96(1993)289

Magnesium oxide

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Homogeneous and heterogeneous contributions to the catalytic oxidative dehydrogenation of ethane. Burch et al., 97(1993)49

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Homogeneous and heterogeneous contributions to the oxidative dehydrogenation of propane on oxide catalysts. Burch et al., 100(1993)111

Magnesium oxide/silica

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Magnesium-nickel alloy

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Magnetization

Effects of promoter oxides on the reduction of nickel oxide. Richardson et al., 83(1992)87

Malachite

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Maleic anhydride

Selective oxidation of n-butane to maleic anhydride: A comparative study between promoted and unpromoted VPO catalysts. Bej et al., 83(1992)149

Heterogeneously catalysed gas phase oxidations of 1,3-pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Manganese dioxide

Complete oxidation of benzene on manganese dioxide by ozone. Naydenov et al., 97(1993)17

Manganese oxide

Oxidative oligomerization of methane to aromatics. Claridge et al., 89(1992)103

Manganomanganic oxide

Alkylation of phenol with methanol over Mn₃O₄. Bezouhanova et al., 83(1992)45

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Reaction network for the epoxidation reaction of alkenes with organic hydroperoxides. Kaminski et al., 88(1992)1

Mechanism

Activity of vanadium on different catalyst supports. Lee, 82(1992)215

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Selective reduction of nitrogen oxides under oxidising exhaust-gas conditions. Bennett et al., 86(1992)L1

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

MEL strucutre

Catalytic hydroxylation of phenol over vanadium silicate molecular sieve with MEL structure. Hari Prasad Rao et al., 93(1993)123

Melt

Propylene oxide synthesis via propene acetoxylation over supported palladium and platinum catalysts followed by cracking of glycol acetates in a melt of potassium acetate. Gusevskaya et al., 97(1993)1

Membrane

Platinum/γ-Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Membrane reactor

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Membranes

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Catalyst dispersion on supported ultramicroporous inorganic membranes using derivatized silylation agents. Raman et al., 96(1993)65

Liquid-phase catalytic hydrogenation using palladium alloy membranes. Farris et al., 96(1993)25

Metal distribution

Design of inhomogeneous metal distributions within catalyst particles. Zhang et al., 91(1992)57

Metal elution

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

Metal oxide catalyst

Catalytic decomposition of nitrogen dioxide over various metal oxides. Shimokawabe et al., 85(1992)129

Metal particle size

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Metal profiles

Control of metal radial profiles in alumina supports by carbon dioxide. Kresge et al., 81(1992)215

Metal Salts

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst — a Review. Del Bianco et al., 94(1993)1

Metal-support interaction

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Metalloperhalophthalocyanine azides

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Metallophthalocyanine azides

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Metallosilicate

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Metallosilicate

Preparation of highly para-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

Metathesis

Catalytic properties of Mo(CO)₆ supported on activated carbon for ethene homologation. Nakamura et al., 87(1992)69

Methacrylic acid

Bulk and surface analysis of a Fe-P-O oxydehydrogenation catalyst. Barbaux et al., 90(1992)51

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Methanal

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Methanation

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Nickel-uranium oxide catalysts: characterization and evaluation for methanation. Berry et al., 100(1993)131

Methanation

Stabilized magnesia as a support for nickel methanation catalysts. Rathousky et al., 94(1993)167

Methane

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Methane activation

Investigation of ethene selectivity in the methane coupling reaction on chlorine-containing catalysts. Burch et al., 82(1992)77

Methane combustion

Alumina aerogel for support of a methane combustion catalyst. Mizushima et al., 88(1992)137

Catalytic oxidation of methane over palladium supported on alumina. Influence of the oxygen-to-methane ratio. Mouaddib et al., 87(1992)129

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Methane conversion

Comparison of lanthanum oxide and strontium-modified lanthanum oxide catalysts for the oxidative coupling of methane. Conway et al., 86(1992)199

Kinetics of methane oxidative coupling on zinc-doped titanium oxide. Efstathiou et al., 92(1992)1

Methane coupling

Characterization of catalysts for methane coupling by means of thermal methods. Spinicci et al., 93(1992)47

Methane dehydrogenation

Catalytic low-temperature oxydehydrogenation of methane to higher hydrocarbons with very high selectivity at 8-12% conversion. Rasko et al., 84(1992)57

Methane oligomerization

Oxidative oligomerization of methane to aromatics. Claridge et al., 89(1992)103

Methane oxidation

Catalytic chemistry of supported palladium for combustion of methane. Farrauto et al., 81(1992)227

Oxidative dehydrogenation of ethane and the coupling of methane over sodium containing cerium oxides. Kennedy et al., 87(1992)171

Low-temperature selctive oxidation of methane to carbon monoxide and hydrogen over cobalt-MgO catalysts. Choudhary et al., 90(1992)L1

Methane oxidative coupling

Effect of sulfur on the oxidative coupling of methane over a lanthana catalyst. Campbell et al., 82(1992)13

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Influence of basicity on the catalytic activity for oxidative coupling of methane. Maitra et al., 85(1992)27

Catalytic oxidative coupling of methane on metal oxides. I. Effect of oxidation state of bismuth and reversibility of lattice oxygen on activity in barium-lanthanum-bismuth oxides. Bhattacharya et al.,

85(1992)135

Oxidative coupling of methane over γ -alumina-supported lead oxide catalyst. Park et al., 85(1992)117

Lamellar perovskites M^I(A_{n-1}B_nO_{3n+1}) catalysts for oxidative coupling of methane. Barrault et al., 88(1992)197

Characterization of bismuth-manganese catalysts for methane oxidative coupling. Baidikova et al., 89(1992)169

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Oxidative coupling of methane over alkali metal chloride promoted zirconia. Effect of the preparation pethod. Khan et al., 90(1992)199

Potassium/calcium/nickel oxide catalysts for oxidative coupling of methane. Dooley et al., 90(1992)159

Methane oxidative coupling (homogeneous)

Reaction-path analysis of a homogeneous methane oxidative coupling mechanism. Tjatjopoulos et al., 88(1992)213

Methane oxidative dimerization

Oxidative dimerization of methane in molten Na₂CO₃-K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Methane partial oxidation

Role of chlorine in the partial oxidation of methane to ethene on MgO catalysts. Burch et al., 96(1993)289

Partial oxidation of methane on Mo/Sn/P silica supported catalysts. Weng et al., 96(1993)383

Methane reforming reaction

Catalytic oxidation of methane over palladium supported on alumina. Influence of the oxygen-to-methane ratio. Mouaddib et al., 87(1992)129

Methanol

Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Reaction mechanism of methanol dehydrogenation on a sodium carbonate catalyst. Su et al., 91(1992)131

Acetic acid and methyl acetate formation from methanol alone over ruthenium(II)-tin(II) cluster complex catalysts supported on copper-containing oxide. Yamakawa et al., 92(1992)L1

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Anion treatment (F or SO₄²) of AlPO₄-Al₂O₃ (25 wt.-% Al₂O₃) catalysts. IV. Catalytic performance in the alkylation of phenol with methanol. Bautista et al., 99(1993)161

Methanol conversion

Trans-but-2-ene is the first hydrocarbon produced in the conversion of methanol to gasoline over zeolite H-ZSM-5. Sulikowski et al., 89(1992)69

Barium modification of a high-silica zeolite for methanol conversion to light alkenes. Abdillahi et al., 91(1992)1 Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Methanol dehydrogenation

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Methanol oxidation

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

Methanol oxidation on a monolayer supported on iron oxide. Yamada et al., 96(1993)113

Methanol oxidation on MoO₃/TiO₂ catalysts. Bruckman et al., 96(1993)279

Methanol selectivity

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Methanol steam reforming

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Methanol synthesis

Intermetallic catalysts for methanol synthesis: Ternary alloys containing copper and cerium. Jennings et al., 81(1992)257

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15

Copper/zirconia catalysts for the synthesis of methanol from carbon dioxide: Influence of preparation variables on structural and catalytic properties of catalysts. Koeppel et al., 84(1992)77

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. Neophytides et al., 86(1992)45

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Temperature-programmed desorption study on supported copper-containing methanol synthesis catalysts. Robinson et al., 98(1993)81

Methanol-to-gasoline

Two-dimensional 13C solid-state spin-diffusion NMR of the products of methanol conversion into gasoline adsorbed on zeolite H-ZSM-5. Kolodziejski et al., 81(1992)133

Methanol/gasoline

Catalytic properties of high-silica zeolites synthesized in mixtures of water and organic solvent. Sugimoto et al., 87(1992)15

Methyl α -D-glucoside

Selective oxidation of methyl α -D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Methyl acetate

Acetic acid and methyl acetate formation from methanol alone over ruthenium(II)-tin(II) cluster complex catalysts supported on copper-containing oxide. Yamakawa et al., 92(1992)L1

Acetic anhydride synthesis from methyl formate catalysed by rhodium-iodide complexes. Seuillet et al., 93(1993)219

Methyl ethyl ketone

Vanadium oxides as regenerable reagents in the oxidation of butan-2-one to diacetyl. McCullagh et al., 97(1993)39

Methyl formate

Decarbonylation of methyl formate over heterogeneous catalysts. I. Activity and selectivity. Lee et al., 83(1992)165

Chemical equilibria and catalytic reaction of gas-phase methanol synthesis from methyl formate. Kim et al., 83(1992)15 Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Acetic anhydride synthesis from methyl formate catalysed by rhodium-iodide complexes. Seuillet et al., 93(1993)219

3-Methyl-phthalic anhydride

Heterogeneously catalysed gas phase oxidations of 1,3pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

4-Methyl-phthalic anhydride

Heterogeneously catalysed gas phase oxidations of 1,3pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Methylation

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

Methylcyclohexene

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Methylcyclohexene hydrochlorination

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Methylcyclopentane

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

4-Methyldibenzothiophene

Deep desulfurization of light oil. II. Hydrodesulphurization of dibenzothiophene, 4-methyldibenzothiophene and 4,6-dimethyldibenzothiophene. Kabe et al., 97(1993)L1

MFI metallosilicates

Toluene isopropylation over zeolite b and metallosilicates of MFI structure. Parikh et al., 90(1992)1

MFI-type zeolites

Synthesis and characterization of defect-free crystals of MFI-type zeolites. Axon et al., 81(1992)27

Microcalorimetry

Calorimetric and catalytic investigation of alkanes reactivity over a variety of MFI structures. Auroux et al., 93(1993)181

Microdiffraction

X-ray diffraction and electron microscopy studies of Pt-Sn-SiO₂ catalysts. Srinivasan et al., 87(1992)45

Microreactor

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Mixed oxides

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Mo(CO)6

Catalytic properties of Mo(CO)₆ supported on activated carbon for ethene homologation. Nakamura et al., 87(1992)69

Model reaction

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

Modifier

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Modifiers (salts)

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al.,

89(1992)77

Molecular sieves

Catalytic hydroxylation of phenol over vanadium silicate molecular sieve with MEL structure. Hari Prasad Rao et al., 93(1993)123

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Molten carbonates

Oxidative dimerization of methane in molten Na₂CO₃–K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Molten salts

Oxidative dimerization of methane in molten Na₂CO₃–K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Molybdates

Partial oxidation of methane on Mo/Sn/P silica supported catalysts. Weng et al., 96(1993)383

Molybdena

Methanol oxidation on a monolayer supported on iron oxide. Yamada et al., 96(1993)113

Molybdena/silica

Nitrogen containing species as intermediates in the oxidation of ammonia over silica supported molybdena catalysts. Biermann et al., 86(1992)165

Molybdenum

High-resolution electron microscopy study of phosphorus-containing MoS₂/Al₂O₃ hydrotreating catalysts. Ramirez et al., 83(1992)251

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Higher alcohol synthesis on modified iron based catalysts: Copper and molybdenum addition. Kiennemann et al., 99(1993)175

Molybdenum oxide/titanium oxide

Methanol oxidation on MoO₃/TiO₂ catalysts. Bruckman et al., 96(1993)279

Molybdenum/alumina

Preparation and characterization of PdO-MoO₃/γ-Al₂O₃ catalysts. Halasz et al., 82(1992)51

Monolayer

Methanol oxidation on a monolayer supported on iron oxide. Yamada et al., 96(1993)113

Monolithic catalysts

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Monomers

Some innovative aspects in the production of monomers via catalyzed oxidation processes — a Review. Cavani et al., 88(1992)115

Montmorillonite

Catalytic activity of nickel sulphide catalysts supported on Al-pillared montmorillonite for thiophene hydrodesulphurization. Kloprogge et al., 97(1993)77

Mordenite

Roles of Brønsted and Lewis sites during cracking of n-octane on H-mordenite. Abbot et al., 85(1992)173

Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Improvement of platinum-supported zeolite catalysts for n-hexane aromatization by halocarbon treatment and alkaline soaking. Sugimoto et al., 96(1993)201

H-Mordenite

Isomerization of xylene isomers on a PtRe-H-mordenite catalyst. Aboul-Gheit et al., 93(1993)131

Morphology

Catalytic reduction of nitric oxide over amorphous and crystalline chromia. II. Structural dependence of selective and non-selective reactions. Curry-Hyde et al., 90(1992)183

Morphology of coprecipitated nickel/alumina catalysts with low alumina content. Zielínsky, 94(1993)107

MoS2

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Mössbauer spectroscopy

Carbon supported bimetallic catalysts containing iron. I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Oxidative dehydrogenation of n-butane on iron-zinc oxide catalysts. Armendariz et al., 92(1992)29

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Sulfidation and acidity of Co/C catalysts having extremely low cobalt-loading: A Mössbauer emission spectroscopy and thiophene hydrodesulphurization study. Crajé et al., 100(1993)97

MoUHY zeolite

Mo-USY zeolites for hydrodesulphurization. II. Surface properties of sulphided catalysts and activity for thiophene hydrodesulphurization. Anderson et al., 99(1993)55

MTBE

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Multiplicity features

Study on the possible existence of multiplicity features in ethylene hydrogenation over Pt/boehmite catalysts. Han et al., 86(1992)71

N

Nanophase carbides

Nanophase iron carbides as catalysts for carbon dioxide hydrogenation. Trovarelli et al., 95(1993)L9

Naphthalene hydrogenation

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

New catalysts

Recent progress in catalytic technology in Japan (supplement) — a review. Nojiri et al., 93(1993)103

Nickel

Reactivity of novel ion-exchanged nickel/hydrous titanate catalysts. Anderson et al., 82(1992)185

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Nickel passivation on fluidised cracking catalysts with different antimony complexes. Corma et al., 85(1992)61

Regeneration of a nickel/silica catalyst poisoned by thiophene. Aguinaga et al., 90(1992)131

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Characterization and catalytic properties of several potassium-doped iron-nickel catalysts. Medina et al., 92(1992)131

Stabilized magnesia as a support for nickel methanation catalysts. Rathousky et al., 94(1993)167

Morphology of coprecipitated nickel/alumina catalysts with low alumina content. Zielínsky, 94(1993)107

Effect of the support on the reducibility of high-loaded nickel catalysts. Solcova et al., 94(1993)153

Catalytic properties of hectorite-like smectites containing nickel. Nishiyama et al., 95(1993)171

Surface characterization and catalytic properties of several graphite supported potassium-free and potassium-doped nickel catalysts. Medina et al., 99(1993)115

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. II. Catalytic properties in the hydrogenation of acetophenone, determination of the reactivity ratios as selectivity criteria. Masson et al., 99(1993)147

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts. Hamar-Thibault et al., 99(1993)131

sulphided Nickel

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Nickel acetylacetonate

Dimerization of ethene to 2-butene and metathesis with 1-butene by sequential use of homogeneous catalyst systems. Pillai et al., 81(1992)273

Nickel clusters

Characterization of nickel species at Ni/γ - Al_2O_3 and Ni/faujasite catalysts by carbon monoxide adsorption. Kubelkova et al., 95(1993)87

Nickel oxide

Effects of promoter oxides on the reduction of nickel oxide. Richardson et al., 83(1992)87

Potassium/calcium/nickel oxide catalysts for oxidative coupling of methane. Dooley et al., 90(1992)159

Nickel sulphate

Catalytic behavior of NiSO₄/γ-Al₂O₃ for ethene dimerization. Cai et al., 95(1993)L1

Nickel sulphide

Catalytic activity of nickel sulphide catalysts supported on Al-pillared montmorillonite for thiophene hydrodesulphurization. Kloprogge et al., 97(1993)77

Nickel-faujasite

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Nickel-molybdenum/alumina

Phosphorus promotion in nickel-molybdenum/alumina catalysts: Model compound reactions and gas oil hydroprocessing. Lewis et al., 84(1992)103

Nickel-rare earths

Hydrogenation catalysts based on nickel and rare earth oxides. I. Relation between cations nature, preparation route, hydrogen content and catalytic activity. Sohier et al., 84(1992)169

Nickel-tungsten

Hydrodealkylation reaction of ethylbenzene over a supported nickel-tungsten catalyst. Song et al., 83(1992)75

Nickel/alumina

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

Alkylation of benzene with propene to produce cumene over a nickel/ γ -alumina catalyst. Jian et al., 91(1992)125

Morphology of coprecipitated nickel/alumina catalysts with low alumina content. Zielínsky, 94(1993)107

Nickel/silica

Design of inhomogeneous metal distributions within catalyst particles. Zhang et al., 91(1992)57

Nickel/silicate

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

Nickel-molybdenum/alumina

Effect of hydrogen sulphide on the reaction of 2,6-dimethylaniline over sulphided hydrotreating catalysts. van Gestel et al., 92(1992)143

Nickel-uranium oxide

Nickel-uranium oxide catalysts: characterization and evaluation for methanation. Berry et al., 100(1993)131

Nickel-zirconium alloy

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Niobia

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Characterization of platinum-tin bimetallic catalysts supported on alumina and niobia. Aranda et al., 100(1993)77

Niobium oxide

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Textural, acidic and catalytic properties of niobium phosphate and of niobium oxide. Influence of the pretreatment temperature. Florentine et al., 89(1992)143

Niobium phosphate

Textural, acidic and catalytic properties of niobium phosphate and of niobium oxide. Influence of the pretreatment temperature. Florentine et al., 89(1992)143

Nitric oxide

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1 Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Nitric oxide reduction

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al.,

85(1992)13

Catalytic reduction of nitric oxide over amorphous and crystalline chromia. II. Structural dependence of selective and non-selective reactions. Curry-Hyde et al., 90(1992)183

Vanadia on titania prepared by vapour deposition of vanadyl alkoxide: Influence of preparation variables on structure and activity for the selective catalytic reduction of nitric oxide by ammonia. Nickl et al.,

98(1993)173

Nitric oxide TPD

Characterization of unsupported cupric oxide and cupric oxide/silica catalysts by temperature-programmed desorption of nitrogen oxide. Shimokawabe et al., 87(1992)205

Nitrogen

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Nitrogen dioxide

Catalytic decomposition of nitrogen dioxide over various metal oxides. Shimokawabe et al., 85(1992)129

Nitrogen formation

Reduction of nitrates by dihydrogen in CeO₂ and Rh/CeO₂ catalysts. Barbier, Jr. et al., 90(1992)11

Nitrogen oxides

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al.,

85(1992)13

Selective reduction of nitrogen oxides under oxidising exhaust-gas conditions. Bennett et al., 86(1992)L1

Nitrogen passivation

New silica-alumina-magnesia FCC active matrix and its possibilities as a basic nitrogen passivating compound. Corma et al., 84(1992)31

Nitrous oxide

Oxidation of benzene to phenol by nitrous oxide over Fe-ZSM-5 zeolites. Panov et al., 82(1992)31

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al., 85(1992)13

Reliability of pulse-chromatographic nitrous oxide titrations of the copper surface area on Cu-ZnO-MeO_x catalysts in connection with the characterization of their thermostability. Berndt et al., 86(1992)65

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Nitrous oxide as oxidant

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

NiUSHY

Relationship between reduced nickel and activity for benzene hydrogenation on Ni-USY zeolite catalysts. Daza et al., 87(1992)145

NO_x removal

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Nonionic surfactant

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

NO_x

Preparation and characterization of PdO-MoO₃/γ-Al₂O₃ catalysts. Halasz et al., 82(1992)51

Nuclear magentic resonance

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

Dehydration of (DPA) VPI-5: In situ variable temperature multinuclear NMR investigations. Maistriau et al., 81(1992)67

Synthesis and characterization of defect-free crystals of MFI-type zeolites. Axon et al., 81(1992)27

Two-dimensional 13C solid-state spin-diffusion NMR of the products of methanol conversion into gasoline adsorbed on zeolite H-ZSM-5. Kolodziejski et al., 81(1992)133

Xenon adsorption studies on faujasite-like zeolites: Low-temperature ¹²⁹Xe-NMR and room temperature isotherms. Pires et al., 95(1993)75

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Solid-state nuclear magnetic resonance spectroscopic investigation of hydrotreating catalysts and related materials. Han et al., 98(1993)195

MAS-Nuclear magnetic resonance

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

1-Octene

Metathesis of 1-alkenes in the liquid phase over a Re₂O₇/γ-Al₂O₃ catalyst. Spronk et al., II. Kinetics of deactivation 83(1992)213

0

Oil hydrogenation

Catalytic behaviour of rhodium supported on palygorskite, silica and titania in oil hydrogenation. Herrero et al., 86(1992)37

Oligomerization

Oxidative oligomerization of methane to aromatics. Claridge et al., 89(1992)103

Catalytic properties of hectorite-like smectites containing nickel. Nishiyama et al., 95(1993)171

Organic media

Novel synthetic method for the catalytic use of thermally stable zirconia: Thermal decomposition of zirconium alkoxides in organic media. Inoue et al., 97(1993)L25

Organic solvent

Catalytic properties of high-silica zeolites synthesized in mixtures of water and organic solvent. Sugimoto et al., 87(1992)15

Organometallics

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst — a Review. Del Bianco et al., 94(1993)1

Oscillations

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Oxalate

Hydrogenolysis of diethyl oxalate over copper-based catalysts. Thomas et al., 86(1992)101

Oxidation

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Selective oxidation of methyl α-D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Selective oxidation of methyl-α-D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Oxidative dehydrogenation of n-butane on iron-zinc oxide catalysts. Armendariz et al., 92(1992)29

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Oxidation catalysis

Oxidation of ethylene to acetaldehyde over a heterogenized surface-vanadate Wacker catalyst in the absence of gaseous oxygen. Van der Heide et al., 86(1992)181

Oxidation of alcohols

Liquid-phase oxidation of 1-methoxy-2-propanol with air. III. Chemical deactivation and oxygen poisoning of platinum catalysts. Mallat et al., 86(1992)147

Oxidation state

Catalytic oxidative coupling of methane on metal oxides. I. Effect of oxidation state of bismuth and reversibility of lattice oxygen on activity in barium-lanthanum-bismuth oxides. Bhattacharya et al., 85(1992)135

Oxidative coupling

Comparison of lanthanum oxide and strontium-modified lanthanum oxide catalysts for the oxidative coupling of methane. Conway et al., 86(1992)199

Lamellar perovskites M^I(A_{n-1}B_nO_{3n+1}) catalysts for oxidative coupling of methane. Barrault et al., 88(1992)197

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Oxidative coupling (homogeneous)

Reaction-path analysis of a homogeneous methane oxidative coupling mechanism. Tjatjopoulos et al., 88(1992)213

Oxidative dehydrogenation

Oxidative dehydrogenation of n-butane to butadiene: effect of different promoters on the performance of V-Mg-O catalysts. Bhattacharyya et al., 87(1992)29

Role of surface acidity on vanadia/silica catalysts used in the oxidative dehydrogenation of ethane. Le Bars et al., 88(1992)179

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Oxidative dehydrogenation of propane on vanadium supported on magnesium silicates. Corma et al., 97(1993)159

Oxidative hydroxylation

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Oxidative methylation

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Oxydehydrogenation

Bulk and surface analysis of a Fe-P-O oxydehydrogenation catalyst. Barbaux et al., 90(1992)51

Oxydehydrogenation of ethane over ZSM-5 zeolite catalysts: Effect of steam. Chang et al., 96(1993)305

Oxygen

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Oxygen adsorption

Rhenium as a promoter for ethylene epoxidation. Yang et al., 92(1992)73

Oxygen spill-over

Characterization of bismuth-manganese catalysts for methane oxidative coupling. Baidikova et al., 89(1992)169

Oxidation of carbon monoxide on platinum-tin dioxide catalysts at low temperatures. Boulahouache et al., 91(1992)115

Oxygenates

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Kinetic and transient kinetic investigations of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)77

Oxygenates hydrogenolysis

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Ozone

Complete oxidation of benzene on manganese dioxide by ozone. Naydenov et al., 97(1993)17

P

Palladium

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Alumina aerogel for support of a methane combustion catalyst. Mizushima et al., 88(1992)137

Effects of calcination program and rehydration on palladium dispersion in zeolites NaY and 5A. Zhang et al., 89(1992)155

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Hydrogenation of phenol over supported platinum and palladium catalysts. Talukdar et al., 96(1993)229

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

Complementary study by calorimetry and infrared spectroscopy of alkali metal doped Pd/SiO₂ solids: Adsorption of hydrogen and carbon monoxide. Gravelle-Rumeau-Mail et al., 98(1993)45

Palladium alloys

Liquid-phase catalytic hydrogenation using palladium alloy membranes. Farris et al., 96(1993)25

Palladium oxide

Catalytic chemistry of supported palladium for combustion of methane. Farrauto et al., 81(1992)227

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Palladium sintering

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Palladium-cerium/alumina

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Palladium-cobalt/alumina

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Palladium-indium-ruthenium

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Palladium-rhodium/silica

Activity and infrared studies during carbon monoxide oxidation over bimetallic palladium-rhodium/silica catalysts. Araya et al., 92(1992)17

Palladium-ruthenium

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Palladium/y-alumina

Pyridine synthesis from tetrahydrofurfuryl alcohol over a palladium/ γ -alumina catalyst. I. Behavior of adsorbed ammonia on a palladium/ γ -alumina catalyst. Choi et al., 87(1992)157

Palladium/y-alumina

Pyridine synthesis from tetrahydrofurfuryl alcohol over a Pd/γ-Al₂O₃ catalyst. II. Choi et al., 98(1993)21

Palladium/alumina

Preparation and characterization of PdO-MoO₃/γ-Al₂O₃ catalysts. Halasz et al., 82(1992)51

Oscillations during the interaction between carbon monoxide and oxygen on palladium-containing catalysts. Tenchev et al., 83(1992)31

Catalytic oxidation of methane over palladium supported on alumina. Influence of the oxygen-to-methane ratio. Mouaddib et al., 87(1992)129

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Temperature-programmed study of the oxidation of palladium/alumina catalysts and their lanthanum modification. Hoost et al., 92(1992)39

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Palladium/carbon

Propylene oxide synthesis via propene acetoxylation over supported palladium and platinum catalysts followed by cracking of glycol acetates in a melt of potassium acetate. Gusevskaya et al., 97(1993)1

Palladium/cobalt

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

Palladium/silica

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Palygorskite

Catalytic behaviour of rhodium supported on palygorskite, silica and titania in oil hydrogenation. Herrero et al., 86(1992)37

Effect of thermal treatment of the support of platinum/palygorskite catalysts on hydrogen chemisorption. González et al., 87(1992)231

Particle size

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Pyridine synthesis from tetrahydrofurfuryl alcohol over a Pd/ γ -Al₂O₃ catalyst. II. Choi et al., 98(1993)21

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts

in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Passivation

Nickel passivation on fluidised cracking catalysts with different antimony complexes. Corma et al., 85(1992)61

PbAl₂O₄ spinel

Oxidative coupling of methane over γ -alumina-supported lead oxide catalyst. Park et al., 85(1992)117

PbO/y-alumin

Oxidative coupling of methane over γ -alumina-supported lead oxide catalyst. Park et al., 85(1992)117

1,3-Pentadiene

Heterogeneously catalysed gas phase oxidations of 1,3-pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Pentadiene-1,3 hydrogenation

Preparation and catalysis over palladium composite membranes. Gryaznov et al., 96(1993)15

n-Pentane

Hydroisomerization of n-pentane over hybrid catalysts containing a supported hydrogenation catalyst. Fujimoto et al., 91(1992)81

Pentasil molecular sieves

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Pentasil structure

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Periodic trends

Kinetic interpretation of periodic trends in heterogeneous catalysis. Kasztelan, 83(1992)L1

Perovskites

Lamellar perovskites M^I(A_{n-1}B_nO_{3n+1}) catalysts for oxidative coupling of methane. Barrault et al., 88(1992)197

Petrochemicals

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Petroleum

Thermodynamic hydroconversion of heavy petroleum cuts with dispersed catalyst – a Review. Del Bianco et al., 94(1993)1

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Phase boundary effect

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

Phase cooperation

Phase cooperation and remote control effects in selective oxidation catalysts — a review. Weng et al., 81(1992)141

Phenol

Alkylation of phenol with methanol over Mn₃O₄. Bezouhanova et al., 83(1992)45

Direct partial oxidation of benzene to phenol on zeolite catalysts. Burch et al., 86(1992)139

Hydrogenation of phenol over supported platinum and palladium catalysts. Talukdar et al., 96(1993)229

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Phenol alkylation

Anion treatment (F or SO₄²) of AlPO₄-Al₂O₃ (25 wt.-% Al₂O₃) catalysts. IV. Catalytic performance in the alkylation of phenol with methanol. Bautista et al., 99(1993)161

Phenol hydroxylation

Why are some titanium silicalite-1 samples active and others not?. van der Pol et al., 92(1992)113

Catalytic hydroxylation of phenol over vanadium silicate molecular sieve with MEL structure. Hari Prasad Rao et al., 93(1993)123

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

Phenol synthesis

Oxidation of benzene to phenol by nitrous oxide over Fe-ZSM-5 zeolites. Panov et al., 82(1992)31

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Phosphates

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Phosphoric acid

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Phosphorus

Dehydration of (DPA) VPI-5: In situ variable temperature multinuclear NMR investigations. Maistriau et al., 81(1992)67

High-resolution electron microscopy study of phosphorus-containing MoS₂/Al₂O₃ hydrotreating catalysts. Ramirez et al., 83(1992)251

Phosphorus promotion in nickel-molybdenum/alumina catalysts: Model compound reactions and gas oil hydroprocessing. Lewis et al., 84(1992)103

Phosphorus oxide

Vanadium oxides as regenerable reagents in the oxidation of butan-2-one to diacetyl. McCullagh et al., 97(1993)39

Phosphorus promotion

Partial oxidation of methane on Mo/Sn/P silica supported catalysts. Weng et al., 96(1993)383

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Photo-oxidation

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Phthalic anhydride

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Heterogeneously catalysed gas phase oxidations of 1,3pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Phthalic anhydride esterification

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Phthalocyanine

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Pillared clays

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Pilot plant

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Platinum

A study of platinum catalysts modified by tin. Lamy-Pitara et al., 81(1992)47

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Alkane conversion and topological segregation in PtM/Al₂O₃ catalysts. Coq et al., 82(1992)231

Selective steam reforming of aromatic compounds on metal catalysts — a review. Duprez, 82(1992)111

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Liquid-phase oxidation of 1-methoxy-2-propanol with air. III. Chemical deactivation and oxygen poisoning of platinum catalysts. Mallat et al., 86(1992)147

Effect of thermal treatment of the support of platinum/palygorskite catalysts on hydrogen chemisorption. González et al., 87(1992)231

Alumina aerogel for support of a methane combustion catalyst. Mizushima et al., 88(1992)137

Selective oxidation of methyl α -D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Selective oxidation of methyl- α -D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Metal-support effects and catalytic properties of platinum supported on zinc aluminate. Aguilar-Rios et al., 90(1992)25

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Catalytic behavior of platinum ion-exchanged zincaluminosilicates in n-pentane aromatization. Fukase et al., 93(1992)35

Oxidation of carbon monoxide on platinum-antimony oxide catalysts. Fuchs et al., 94(1993)85

Hydrogenation of phenol over supported platinum and palladium catalysts. Talukdar et al., 96(1993)229

Platinum black

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

Platinum-alumina

Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Platinum-rhenium

Isomerization of xylene isomers on a PtRe-H-mordenite catalyst. Aboul-Gheit et al., 93(1993)131

Platinum-rhenium/alumina

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al., 86(1992)115

Platinum-rhodium

Hydrogen formation in propane oxidation on Pt-Rh/CeO₂/Al₂O₃ catalysts. Barbier, Jr. et al., 85(1992)89

Platinum-tin

Characterization of platinum-tin bimetallic catalysts supported on alumina and niobia. Aranda et al., 100(1993)77

Platinum-tin dioxide

Oxidation of carbon monoxide on platinum-tin dioxide catalysts at low temperatures. Boulahouache et al., 91(1992)115

Platinum/alumina

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al.,

86(1992)115

Platinum/γ-Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Platinum/silica

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

Platinum/tin

X-ray diffraction and electron microscopy studies of Pt-Sn-SiO₂ catalysts. Srinivasan et al., 87(1992)45

Platinum-alumina

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Platinum-bismuth

Selective oxidation of glycerol on a Pt-Bi catalyst. Kimura et al., 96(1993)217

Platinum-boehmite

Study on the possible existence of multiplicity features in ethylene hydrogenation over Pt/boehmite catalysts. Han et al., 86(1992)71

Platinum-cobalt

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Platinum-rhenium

Role of sulfur in a skewed reforming catalyst with a low platinum content and a high rhenium-to-platinum ratio. Chen et al., 97(1993)133

Poisoning

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Polyhydroxybenzophenones

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Polymer-bound

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

Polymerization inhibitor

Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Polyphenylene oxide

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Pore regulating agents

Preparation of large pore alumina supports for hydrodesulfurization catalysts. Walendziewski et al., 96(1993)163

Pore size

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Pore volume

Textural, acidic and catalytic properties of niobium phosphate and of niobium oxide. Influence of the pretreatment temperature. Florentine et al., 89(1992)143

Porosity

Surface acidity of porous catalysts by intermittent temperature-programmed desorption. Joly et al., 96(1993)355

Post-catalytic reaction

Reaction mechanism of methanol dehydrogenation on a sodium carbonate catalyst. Su et al., 91(1992)131

Potassium

Removal of chlorine ions from Ru/MgO catalysts for ammonia. Murata et al., synthesis 82(1992)1

Influence of aluminium and potassium on activity and texture of fused iron catalysts for ammonia synthesis. Kowalczyk et al., 87(1992)1

Precipitation

Georgeite and azurite as precursors in the preparation of co-precipitated copper/zinc oxide catalysts. Spencer et al., 85(1992)1

Preparation

Catalyst dispersion on supported ultramicroporous inorganic membranes using derivatized silylation agents. Raman et al., 96(1993)65

Design of inhomogeneous metal distributions within catalyst particles. Zhang et al., 91(1992)57

Presulphidation

Role of sulfur in a skewed reforming catalyst with a low platinum content and a high rhenium-to-platinum ratio. Chen et al., 97(1993)133

Pretreatment

Effect of catalyst pretreatment on the oxidation of carbon monoxide over coprecipitated gold catalysts. Tanielyan et al., 85(1992)73

Pretreatment temperature

Textural, acidic and catalytic properties of niobium phosphate and of niobium oxide. Influence of the pretreatment temperature. Florentine et al., 89(1992)143

Promoter

Effects of promoter oxides on the reduction of nickel oxide. Richardson et al., 83(1992)87

Effect of promoter on selective hydrogenation of $\alpha\beta$ -unsaturated aldehydes over cobalt borides. Chen et al., 99(1993)85

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Promotive effect

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Propanal

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Propane

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Oxidative dehydrogenation of propane on vanadium supported on magnesium silicates. Corma et al., 97(1993)159

Propane aromatization

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Propane dehydrogenation

Propane dehydrogenation on chromia/zirconia catalysts. De Rossi et al., 81(1992)113

Homogeneous and heterogeneous contributions to the oxidative dehydrogenation of propane on oxide catalysts. Burch et al., 100(1993)111

Propane oxidation

Hydrogen formation in propane oxidation on Pt-Rh/CeO₂/Al₂O₃ catalysts. Barbier, Jr. et al., 85(1992)89

Propane steam reforming

Hydrogen formation in propane oxidation on Pt-Rh/CeO₂/Al₂O₃ catalysts. Barbier, Jr. et al., 85(1992)89

Propane synthesis

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

2-Propanol decomposition

Catalytic activity of layered α -(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al., 92(1992)81

Catalytic properties of hectorite-like smectites containing nickel. Nishiyama et al., 95(1993)171

2-Propanol dehydrogenation

Simultaneous dehydrogenation of organic compounds and hydrogen removal by hydride forming alloys. Appelman et al., 81(1992)35

Propene

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Alkylation of benzene with propene to produce cumene over a nickel/ γ -alumina catalyst. Jian et al., 91(1992)125

Propene conversion

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Propene oligomerization

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Propene synthesis

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

Propionic acid

Methacrylic acid synthesis. I. Condensation of propionic acid with formaldehyde over alkali metal cation on silica catalysts. Bailey et al., 88(1992)163

n-Propylbenzene

Alkylation of benzene with isopropanol over zeolite beta. Reddy, 95(1993)53

Propylene glycol acetate cracking

Propylene oxide synthesis via propene acetoxylation over supported palladium and platinum catalysts followed by cracking of glycol acetates in a melt of potassium acetate. Gusevskaya et al., 97(1993)1

Pt/H-ZSM-5

Aromatization of short chain alkanes on zeolite catalysts – a Review. Guisnet et al., 89(1992)1

Pt/NaY

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Pt-Co/NaY

Correlation between chemisorption and the mechanism of carbon monoxide hydrogenation over Pt-Co/NaY catalysts. Lu et al., 93(1992)61

Pyridine synthesis

Pyridine synthesis from tetrahydrofurfuryl alcohol over a palladium/ γ -alumina catalyst. I. Behavior of adsorbed ammonia on a palladium/ γ -alumina catalyst. Choi et al., 87(1992)157

Pyridine synthesis from tetrahydrofurfuryl alcohol over a Pd/ γ -Al₂O₃ catalyst. II. Choi et al., 98(1993)21

Pyrolysis

Preparation of carbon-covered alumina using fluorohydrocarbons: A new acidic support material. Boorman et al., 95(1993)197

Pyrolysis gasoline

Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Pyrophosphate

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

R

Radical cation

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

Radical chain reaction mechanism

Oxidation of 2-isopropylnaphthalene to 2-isopropylnaphthalenehydroperoxide. Takac et al., 95(1993)35

Raman spectroscopy

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Effects of calcination program and rehydration on palladium dispersion in zeolites NaY and 5A. Zhang et al., 89(1992)155

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Raney copper

Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Raney nickel

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. II. Catalytic properties in the hydrogenation of acetophenone, determination of the reactivity ratios as selectivity criteria. Masson et al., 99(1993)147

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. I. Characterization of the catalysts. Hamar-Thibault et al., 99(1993)131

Rare earth oxides

Influence of basicity on the catalytic activity for oxidative coupling of methane. Maitra et al., 85(1992)27

Oxidative methylation and ethane with methane to propane and propene using rare earth oxide-based catalysts. Wada et al., 88(1992)23

Reaction modifiers (salts)

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263

Reaction-path analysis

Reaction-path analysis of a homogeneous methane oxidative coupling mechanism. Tjatjopoulos et al., 88(1992)213

Reactor

Methyl t-butyl ether decomposition in an inert membrane reactor composed of 12-tungstophosphoric acid catalyst and polyphenylene oxide membrane. Song et al., 96(1993)53

Reactor kinetics

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Reactor materials

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Recycle reactor

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Redeposition

Selective oxidation of methyl-α-D-glucoside on carbon supported platinum. III. Catalyst deactivation. Schuurman et al., 89(1992)47

Redox additives

Some fundamental and practical aspects of the ammoxidation of alkylbenzenes. Rizayev et al., 83(1992)103

Reducibility

Effect of the support on the reducibility of high-loaded nickel catalysts. Solcova et al., 94(1993)153

Reduction

Effects of promoter oxides on the reduction of nickel oxide. Richardson et al., 83(1992)87

Influence of metal particle size and effect of gold addition on the activity and selectivity of Pt/Al₂O₃ catalysts in the reduction of nitric oxide by methane. Demicheli et al., 97(1993)L11

Reduction of nitrates

Reduction of nitrates by dihydrogen in CeO₂ and Rh/CeO₂ catalysts. Barbier, Jr. et al., 90(1992)11

Refining

Progress in catalytic technology in the People's Republic of China during the 1980s — a Review. Min et al., 95(1993)1

Reforming

Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

Regeneration

Regeneration of a nickel/silica catalyst poisoned by thiophene. Aguinaga et al., 90(1992)131

Coke formation in high-silica zeolites – a review. Bibby et al., 93(1992)1

Novel regeneration method of Pt/KL zeolite catalyst for light naphtha reforming. Sugimoto et al., 95(1993)255

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Remote control effects

Phase cooperation and remote control effects in selective oxidation catalysts — a review. Weng et al., 81(1992)141

Residual oil cracking

Residual oil cracking with generation of hydrogen: Deactivation of iron oxide catalyst in the steam-iron reaction. Fukase et al., 100(1993)1

Rhenium

Rhenium as a promoter for ethylene epoxidation. Yang et al., 92(1992)73

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

Rhenium oxide/alumina

Metathesis of 1-alkenes in the liquid phase over a Re₂O₇/γ-Al₂O₃ catalyst. Spronk et al., II. Kinetics of deactivation 83(1992)213

Rhenium/alumina

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al.,

86(1992)115

Rhodium

Selective steam reforming of aromatic compounds on metal catalysts — a review. Duprez, 82(1992)111

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Reduction of nitrates by dihydrogen in CeO₂ and Rh/CeO₂ catalysts. Barbier, Jr. et al., 90(1992)11

Catalyst dispersion on supported ultramicroporous inorganic membranes using derivatized silylation agents. Raman et al., 96(1993)65

Acetic anhydride synthesis from methyl formate catalysed by rhodium-iodide complexes. Seuillet et al., 93(1993)219

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

Continuous liquid-phase hydroformylation of 1hexene with a poly-TRIM bound rhodium-phosphine complex. Andersson et al., 96(1993)345

Rhodium supported catalysts

Catalytic behaviour of rhodium supported on palygorskite, silica and titania in oil hydrogenation. Herrero et al., 86(1992)37

Rhodium/ceria

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

Rhodium/silica

Kinetic and transient kinetic investigations of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)77

Rhodium/titania

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

Ruthenium

Removal of chlorine ions from Ru/MgO catalysts for ammonia. Murata et al., synthesis 82(1992)1 Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al.,

89(1992)77

Catalytic activity of ruthenium promoted Co-Mo/Al₂O₃ and infrared investigation of carbon monoxide and nitric oxide adsorption. Xiao et al., 95(1993)21

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

Ruthenium promotion of Fischer-Tropsch synthesis over coprecipitated cobalt/ceria catalysts. Bruce et al., 100(1993)51

Ruthenium-tin

Acetic acid and methyl acetate formation from methanol alone over ruthenium(II)-tin(II) cluster complex catalysts supported on copper-containing oxide. Yamakawa et al., 92(1992)L1

Ruthenium/alumina

Deactivation of ruthenium catalysts in continuous glucose hydrogenation. Arena, 87(1992)219

Rutile

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

S

Samarium

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

SAPO-11

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Scanning electron microscopy

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Schulz-Flory

Properties and catalytic behaviour for the Fischer-Tropsch synthesis of amorphous iron-based alloys prepared by spark-erosion. Coteron et al., 95(1993)237

Screening of catalysts

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Selective catalytic reduction

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al., 85(1992)13

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Influence of nitrogen dioxide on the selective reduction of NO_x with a catalyst of copper and nickel oxides. Blanco et al., 96(1993)331

Selective hydrogenation

Effect of promoter on selective hydrogenation of $\alpha\beta$ -unsaturated aldehydes over cobalt borides. Chen et al., 99(1993)85

Selective oxidation

Phase cooperation and remote control effects in selective oxidation catalysts — a review. Weng et al., 81(1992)141

Azide activation of metallophthalocyanine complexes for the catalytic oxidation of alkanes in the liquid phase. Lyons et al., 84(1992)L1

Some innovative aspects in the production of monomers via catalyzed oxidation processes — a Review. Cavani et al., 88(1992)115

Selective oxidation of methyl α-D-glucoside on carbon supported platinum. II. Assessment of the Arrhenius and Langmuir parameters. Schuurman et al., 89(1992)31

Selective oxidation

Selective oxidation of cyclohexane by an iron-palladium bicatalytic system un der mild conditions: Iron oxide/silica catalysts. Jun et al., 96(1993)269

Selective oxidation of glycerol on a Pt-Bi catalyst. Kimura et al., 96(1993)217

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Selective poisoning

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Selective reduction

Selective reduction of nitrogen oxides under oxidising exhaust-gas conditions. Bennett et al., 86(1992)L1

para-Selectivity

Preparation of highly *para*-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Selectivity (1-phenylethanol)

Selective hydrogenation of acetophenone on chromium promoted Raney nickel catalysts. II. Catalytic properties in the hydrogenation of acetophenone, determination of the reactivity ratios as selectivity criteria. Masson et al., 99(1993)147

Selectivity (para-xylene)

Para-selective alkylation of toluene with methanol over ZSM-5 zeolites. Vayssilov et al., 94(1993)117

Selectivity (para-xylene, para-ethyltoluene

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Selectivity (alkenes, styrene)

Synthesis and catalytic performance of Fe-Cr-bimetallosilicate having a pentasil pore structure. Nagata et al., 94(1993)17

Selectivity (anisole, cresols, xylenols, methylanisoles)

Anion treatment (F or SO₄²) of AlPO₄-Al₂O₃ (25 wt.-% Al₂O₃) catalysts. IV. Catalytic performance in the alkylation of phenol with methanol. Bautista et al., 99(1993)161

Selectivity (aromatics)

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Selectivity (benzaldehyde)

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Selectivity (benzene, iso-hexane)

Selectivities in methylcyclopentane and n-hexane conversion on some metal-loaded SAPO-11 catalysts. Hoffmeister et al., 82(1992)169

Selectivity (butadiene)

Oxidative dehydrogenation of n-butane to butadiene: effect of different promoters on the performance of V-Mg-O catalysts. Bhattacharyya et al., 87(1992)29

Selectivity (C2+ hydrocarbons)

Influence of basicity on the catalytic activity for oxidative coupling of methane. Maitra et al., 85(1992)27

Oxidative coupling of methane on lithium-calcium phosphate catalysts. Ohno et al., 93(1993)141

Oxidative coupling of methane over γ -alumina-supported lead oxide catalyst. Park et al., 85(1992)117

Selectivity (caprolactam)

Factors affecting selectivity in the rearrangement of cyclohexanone oxime to caprolactam over modified aluminas. Curtin et al., 93(1992)75

Influence of boria loading on the activity of B₂O₃/Al₂O₃ catalysts for the conversion of cyclohexanone oxime to caprolactam. Curtin et al., 93(1992)91

Selectivity (crotyl alcohol)

Influence of sulphur poisoning of copper/alumina catalyst on the selective hydrogenation of crotonaldehyde. Hutchings et al., 83(1992)L7

Selectivity (cumene)

Alkylation of benzene with isopropanol over zeolite beta. Reddy, 95(1993)53

Selectivity (cyclohexanone, cyclohexene, phenol)

Nonoxidative dehydrogenation of cyclohexanol over copper-iron binary oxides. Chen et al., 83(1992)201

Selectivity (cyclohexene)

Partial liquid-phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. II. Influence of various salts on the performance of the catalyst. Struijk et al., 89(1992)77

Selectivity (diacetyl)

Kinetic study of the selective oxidation of butan-2-one to diacetyl over vanadium phosphorus oxide. McCullagh et al., 93(1993)203

Selective oxidation of butan-2-one to diacetyl over vanadium pentoxide: An investigation by temporal analysis of products. McCullagh et al., 95(1993)183

Vanadium oxides as regenerable reagents in the oxidation of butan-2-one to diacetyl. McCullagh et al., 97(1993)39

Selectivity (ethane, ethene)

Oxidative dimerization of methane in molten Na₂CO₃– K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Selectivity (ethene)

Investigation of ethene selectivity in the methane coupling reaction on chlorine-containing catalysts. Burch et al., 82(1992)77

Selectivity (ethylbenzene)

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Selectivity (formaldehyde)

Partial oxidation of methane on Mo/Sn/P silica supported catalysts. Weng et al., 96(1993)383

Selectivity (higher hydrocarbons)

Catalytic low-temperature oxydehydrogenation of methane to higher hydrocarbons with very high selectivity at 8-12% conversion. Rasko et al., 84(1992)57

Selectivity (hydrocarbons)

Support effects in cobalt-based Fischer-Tropsch catalysis. Bessell, 96(1993)253

Selectivity (isobutene)

Isomerization of n-butenes to isobutene catalyzed by fluorinated alumina: Reaction kinetics. Szabo et al., 96(1993)319

Selectivity (maleic anhydride)

Selective oxidation of n-butane to maleic anhydride: A comparative study between promoted and unpromoted VPO catalysts. Bej et al., 83(1992)149

Selectivity (methylcyclohexene)

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Selectivity (nitrogen, nitrous oxide)

Catalytic reduction of nitric oxide over amorphous and crystalline chromia. II. Structural dependence of selective and non-selective reactions. Curry-Hyde et al., 90(1992)183

Semiconductors

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Sepiolite

New silica-alumina-magnesia FCC active matrix and its possibilities as a basic nitrogen passivating compound. Corma et al., 84(1992)31

Oxidative dehydrogenation of propane on vanadium supported on magnesium silicates. Corma et al., 97(1993)159

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Shape selectivity

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

Silica

Methacrylic acid synthesis. I. Condensation of propionic acid with formaldehyde over alkali metal cation on silica catalysts. Bailey et al., 88(1992)163

Oxidative oligomerization of methane to aromatics. Claridge et al., 89(1992)103

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Silica-supported palladium

Complementary study by calorimetry and infrared spectroscopy of alkali metal doped Pd/SiO₂ solids: Adsorption of hydrogen and carbon monoxide. Gravelle-Rumeau-Mail et al., 98(1993)45

Silica-alumina

Method for distinguishing Brønsted-acid sites in mixtures of H-ZSM-5, H-Y and silica-alumina. Pereira et al., 90(1992)145

Silicon ortho-phosphate

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Silicon pyro-phosphate

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Silver

Rhenium as a promoter for ethylene epoxidation. Yang et al., 92(1992)73

Silvlation

Catalyst dispersion on supported ultramicroporous inorganic membranes using derivatized silylation agents. Raman et al., 96(1993)65

Singel crystal

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Skewed Pt-Re reforming catalyst

Role of sulfur in a skewed reforming catalyst with a low platinum content and a high rhenium-to-platinum ratio. Chen et al., 97(1993)133

Smectite

Catalytic properties of hectorite-like smectites containing nickel. Nishiyama et al., 95(1993)171

SMSI effect

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

Sodium

Ammoxidation of toluene over CuNa-ZSM-5. Kim et al., 85(1992)47

Comparative study of the effects of sodium impurity and amorphisation on the Lewis acidity of γ -alumina. Mohammed Saad et al., 94(1993)71

Sodium carbonate

Reaction mechanism of methanol dehydrogenation on a sodium carbonate catalyst. Su et al., 91(1992)131

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Sodium promotion

Oxidative dehydrogenation of ethane and the coupling of methane over sodium containing cerium oxides. Kennedy et al., 87(1992)171

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Sodium-potassium eutectic

Oxidative dimerization of methane in molten Na₂CO₃–K₂CO₃ eutectic at 800°C: Comparison with other molten salts. Moneuse et al., 85(1992)147

Sol-gel

Oxidative coupling of methane over alkali metal chloride promoted zirconia. Effect of the preparation pethod. Khan et al., 90(1992)199

Solid acids

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Solid base

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Solid phosphoric acid

Effect of water in the performance of the "solid phosphoric acid" catalyst for alkylation of benzene to cumene and for oligomerization of propene. Cavani et al., 97(1993)177

Solid solutions

Solid solutions of bismuth oxide as promising catalysts for oxidative coupling of methane. Voskresenskaya et al., 90(1992)209

Spark-erosion

Properties and catalytic behaviour for the Fischer-Tropsch synthesis of amorphous iron-based alloys prepared by spark-erosion. Coteron et al., 95(1993)237

Spectroscopy

Catalytic and spectroscopy studies of vanadium oxide supported on group IVb and Vb metal oxides for oxidation of toluene. Huutanen et al., 97(1993)197

Spillover

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Spinel

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides.

I. Preparation of monophasic iron oxides and ferrite spinels and analysis of their mixtures. Xu et al., 89(1992)117

Stability

Intermetallic catalysts for methanol synthesis: Ternary alloys containing copper and cerium. Jennings et al., 81(1992)257

Role of sulfur in a skewed reforming catalyst with a low platinum content and a high rhenium-to-platinum ratio. Chen et al., 97(1993)133

Stability on-stream

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Steam reforming

Selective steam reforming of aromatic compounds on metal catalysts — a review. Duprez, 82(1992)111

Kinetic study of steam reforming of methanol over copper-based catalysts. Jiang et al., 93(1993)245

Kinetic mechanism for the reaction between methanol and water over a Cu–ZnO–Al₂O₃ catalyst. Jiang et al., 97(1993)145

Steam-iron reaction

Residual oil cracking with generation of hydrogen: Deactivation of iron oxide catalyst in the steam-iron reaction. Fukase et al., 100(1993)1

Strong metal-support effect

Metal-support interaction phenomena in rhodium/ceria and rhodium/titania catalysts: Comparative study by high-resolution transmission electron spectroscopy. Bernal et al., 99(1993)1

Strong metal-support interaction

Nickel supported in titania-silica: Preparation, characterization and activity for liquid-phase hydrogenation of acetophenone. Kumbhar, 96(1993)241

Characterization of platinum-tin bimetallic catalysts supported on alumina and niobia. Aranda et al., 100(1993)77

Strontium-modified lanthanum oxide

Comparison of lanthanum oxide and strontium-modified lanthanum oxide catalysts for the oxidative coupling of methane. Conway et al., 86(1992)199

Structural determination

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

Structure

Structure and activity of a CoMo/Al₂O₃ catalyst upon modification by gamma irradiation. Vladov et al., 94(1993)205

Structure determination

Characterization of mixed copper-manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

Structure sensitivity

Catalytic reduction of nitric oxide over amorphous and crystalline chromia. II. Structural dependence of selective and non-selective reactions. Curry-Hyde et al., 90(1992)183

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Styrene

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Experimental studies of the non-oxidative dehydrogenation of ethylbenzene using a membrane reactor. Tiscareno-Lechuga et al., 96(1993)33

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Styrene hydrogenation

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Substituent effects

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Substituted MFI

Calorimetric and catalytic investigation of alkanes reactivity over a variety of MFI structures. Auroux et al., 93(1993)181

Sulphate ion

Anion treatment (F or SO₄²) of AlPO₄-Al₂O₃ (25 wt.-% Al₂O₃) catalysts. IV. Catalytic performance in the alkylation of phenol with methanol. Bautista et al., 99(1993)161

Sulphidation

High-resolution electron microscopy study of phosphorus-containing MoS₂/Al₂O₃ hydrotreating catalysts. Ramirez et al., 83(1992)251

Hydrocracking of n-butane and n-heptane over a sulfided nickel erionite catalyst. Heck et al., 86(1992)83

Sulfidation and acidity of Co/C catalysts having extremely low cobalt-loading: A Mössbauer emission spectroscopy and thiophene hydrodesulphurization study. Crajé et al., 100(1993)97

Sulphur

Infected zone model II: Analyses of published experimental data. Lau et al., 91(1992)97

Sulphur desorption

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al.,

86(1992)115

Sulphur dioxide

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Sulphur isotopic exchange

Sulphur adsorption, desorption and exchange on platinum/alumina, rhenium/alumina and platinum-rhenium/alumina catalysts. Pönitzsch et al.,

86(1992)115

Sulphur poisoning

Effect of sulfur on the oxidative coupling of methane over a lanthana catalyst. Campbell et al.,

82(1992)13

Influence of sulphur poisoning of copper/alumina catalyst on the selective hydrogenation of crotonaldehyde. Hutchings et al., 83(1992)L7

Catalytic combustion of methane over palladium supported on alumina and silica in presence of hydrogen sulfide. Hoyos et al., 98(1993)125

Sulphur tetrafluoride

Ambient temperature catalytic fluorination of C₁ to C₃ chlorohydrocarbons and related compounds using oxide-supported organic layer catalysts. Thomson et al., 97(1993)67

Sunflower seed oil hydrogenation

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

Super-critical fluid extraction

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Superacid

Chlorinated alumina and its catalytic behavior in selective polymerization of isobutene. Cai et al., 97(1993)113

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73

Support (niobia)

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Support effect

Hydrogenolysis of C-N bonds on platinum catalysts. Triyono et al., 100(1993)145

Activity of vanadium on different catalyst supports. Lee, 82(1992)215

Metal-support effects and catalytic properties of platinum supported on zinc aluminate. Aguilar-Rios et al., 90(1992)25

Platinum/γ-Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Effect of the support on the reducibility of high-loaded nickel catalysts. Solcova et al., 94(1993)153

Support effects in cobalt-based Fischer-Tropsch catalysis. Bessell, 96(1993)253

Support stabilization

Stabilized magnesia as a support for nickel methanation catalysts. Rathousky et al., 94(1993)167

Supports

Design of inhomogeneous metal distributions within catalyst particles. Zhang et al., 91(1992)57

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Pyridine synthesis from tetrahydrofurfuryl alcohol over a Pd/ γ -Al₂O₃ catalyst. II. Choi et al., 98(1993)21

Supports (TiO2, ZrO2, HfO2, NbO2, Ta2O5)

Catalytic and spectroscopy studies of vanadium oxide supported on group IVb and Vb metal oxides for oxidation of toluene. Huutanen et al., 97(1993)197

Surface acidity

Role of surface acidity on vanadia/silica catalysts used in the oxidative dehydrogenation of ethane. Le Bars et al., 88(1992)179

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Surface analysis

Bulk and surface analysis of a Fe-P-O oxydehydrogenation catalyst. Barbaux et al., 90(1992)51

Surface modification

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Role of chlorine in the partial oxidation of methane to ethene on MgO catalysts. Burch et al., 96(1993)289

Surface passivation

Toluene isopropylation over zeolite b and metallosilicates of MFI structure. Parikh et al., 90(1992)1

Surface segregation

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Surface species

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Surface topology

Alkane conversion and topological segregation in PtM/Al₂O₃ catalysts. Coq et al., 82(1992)231

Synergism

Oxidation of carbon monoxide on platinum-tin dioxide catalysts at low temperatures. Boulahouache et al., 91(1992)115

Palladium based multi-component catalytic systems for the alcohol to caboxylate oxidation reaction. Kimura et al., 95(1993)143

Roles of spinel and maghemite phases in the oxidative dehydrogenation of butene over iron complex oxides. II. Epitaxy and synergy between γ -Fe₂O₃ and ferrite spinels. Xu et al., 89(1992)131

Syngas

Stability of copper/cobalt catalysts for the synthesis of higher alcohols from syngas. Xu et al., 82(1992)91

Low-temperature selctive oxidation of methane to carbon monoxide and hydrogen over cobalt-MgO catalysts. Choudhary et al., 90(1992)L1

Higher alcohol synthesis on modified iron based catalysts: Copper and molybdenum addition. Kiennemann et al., 99(1993)175

Ruthenium promotion of Fischer-Tropsch synthesis over coprecipitated cobalt/ceria catalysts. Bruce et al., 100(1993)51

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Evidence for hydrogen spillover effect in the deposition of coke on a nickel-faujasite catalyst during syngas conversion. Kapicka et al., 84(1992)47

Methyl formate hydrogenolysis for low-temperature methanol synthesis. Gormley et al., 87(1992)81

Kinetic and transient kinetic investigations of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)77

Catalytic properties and crystalline structures of manganese-promoted iron ultrafine particles for liquidphase hydrogenation of carbon monoxide. Itoh et al., 96(1993)125

Iron-pentasyl molecular sieves: Characterisation and catalytic behaviour in syngas conversion. Goldwasser et al., 100(1993)85

Investigation of the synthesis of oxygenates from carbon monoxide/hydrogen mixtures on supported rhodium catalysts. Burch et al., 88(1992)39

Investigation of the reactions of acetaldehyde on promoted rhodium catalysts. Burch et al., 88(1992)61

Syngas/gasoline

Catalytic properties of high-silica zeolites synthesized in mixtures of water and organic solvent. Sugimoto et al., 87(1992)15

Synthesis

Surface modified niobium oxide catalysts: synthesis, characterization, and catalysis. Jehng et al., 83(1992)179

Propylene oxide synthesis via propene acetoxylation over supported palladium and platinum catalysts followed by cracking of glycol acetates in a melt of potassium acetate. Gusevskaya et al., 97(1993)1

Synthesis (zeolites)

Parameters affecting the synthesis of titanium silicalite 1. van der Pol et al., 92(1992)93

Synthetic smectite

Catalytic properties of hectorite-like smectites containing nickel. Nishiyama et al., 95(1993)171

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TEM-EDAX

Carbon supported bimetallic catalysts containing iron.

I. Preparation and characterization. Guerrero-Ruiz et al., 81(1992)81

Temperature-programmed desorption

Method for distinguishing Brønsted-acid sites in mixtures of H-ZSM-5, H-Y and silica-alumina. Pereira et al., 90(1992)145

Temperature-programmed study of the oxidation of palladium/alumina catalysts and their lanthanum modification. Hoost et al., 92(1992)39

Acidity of a microporous amorphous alumina measured by intermittent temperature-programmed desorption of ammonia. Joly et al., 98(1993)61

intermittentTemperature-programmed desorption

Surface acidity of porous catalysts by intermittent temperature-programmed desorption. Joly et al., 96(1993)355

Temperature-programmed oxidation

Temperature-programmed study of the oxidation of palladium/alumina catalysts and their lanthanum modification. Hoost et al., 92(1992)39

Temperature-programmed reduction: limitation of the technique for determining the extent of reduction of either pure ceria or ceria modified by additives. Zotin et al., 98(1993)99

Temperature-programmed reduction

Preparation and characterization of PdO-MoO₃/γ-Al₂O₃ catalysts. Halasz et al., 82(1992)51

Effects of promoter oxides on the reduction of nickel oxide. Richardson et al., 83(1992)87

Effects of calcination program and rehydration on palladium dispersion in zeolites NaY and 5A. Zhang et al., 89(1992)155

Characterization of catalysts for methane coupling by means of thermal methods. Spinicci et al., 93(1992)47

Characterization of mixed copper-manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

Temperature-programmed reduction: limitation of the technique for determining the extent of reduction of either pure ceria or ceria modified by additives. Zotin et al., 98(1993)99

Characterization of platinum-tin bimetallic catalysts supported on alumina and niobia. Aranda et al., 100(1993)77

Ternary alloys

Intermetallic catalysts for methanol synthesis: Ternary alloys containing copper and cerium. Jennings et al., 81(1992)257

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Tetrahydrofurfuryl alcohol

Pyridine synthesis from tetrahydrofurfuryl alcohol over a palladium/γ-alumina catalyst. I. Behavior of adsorbed ammonia on a palladium/γ-alumina catalyst. Choi et al., 87(1992)157 Pyridine synthesis from tetrahydrofurfuryl alcohol over a Pd/γ-Al₂O₃ catalyst. II. Choi et al., 98(1993)21

Tetralin

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Catalytic reactions of tetralin on H-ZSM-5 zeolite. Townsend et al., 95(1993)221

Textural properties

Active carbons from semianthracites. Ruiz et al., 98(1993)115

Texture

Decomposition of isopropanol on magnesium oxide/silica in relation to texture, acidity and chemical composition. Youssef et al., 81(1992)1

Influence of aluminium and potassium on activity and texture of fused iron catalysts for ammonia synthesis. Kowalczyk et al., 87(1992)1

Thermal decomposition

Novel synthetic method for the catalytic use of thermally stable zirconia: Thermal decomposition of zirconium alkoxides in organic media. Inoue et al., 97(1993)L25

Thermogravimetric analysis

Catalytic chemistry of supported palladium for combustion of methane. Farrauto et al., 81(1992)227

Method for distinguishing Brønsted-acid sites in mixtures of H-ZSM-5, H-Y and silica-alumina. Pereira et al., 90(1992)145

Thermostability

Reliability of pulse-chromatographic nitrous oxide titrations of the copper surface area on Cu-ZnO-MeO_x catalysts in connection with the characterization of their thermostability. Berndt et al., 86(1992)65

Thionyl chloride

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Thiopene hydrodesulphurization

Carbon supported bimetallic catalysts containing iron: II Catalytic behaviour in benzene hydrogenation and thiophene hydrodesulfurization. Guerrero-Ruiz et al., 81(1992)101

Thiophene

Sulfidation and acidity of Co/C catalysts having extremely low cobalt-loading: A Mössbauer emission spectroscopy and thiophene hydrodesulphurization study. Crajé et al., 100(1993)97

Thiophene hydrodesulphurization

Structure and activity of a CoMo/Al₂O₃ catalyst upon modification by gamma irradiation. Vladov et al., 94(1993)205

Mo-USY zeolites for hydrodesulphurization. II. Surface properties of sulphided catalysts and activity for thiophene hydrodesulphurization. Anderson et al., 99(1993)55

Thiophene poisoning

Regeneration of a nickel/silica catalyst poisoned by thiophene. Aguinaga et al., 90(1992)131

Tin

A study of platinum catalysts modified by tin. Lamy-Pitara et al., 81(1992)47

Dehydrogenation of isobutane to isobutene in a palladium membrane reactor. Matsuda et al., 96(1993)3

Catalytic activity of layered α -(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al.,

92(1992)81

Tin promotion

Partial oxidation of methane on Mo/Sn/P silica supported catalysts. Weng et al., 96(1993)383

TiO₂/Al₂O₃

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Tiophene hydrodesulphurization

Catalytic activity of nickel sulphide catalysts supported on Al-pillared montmorillonite for thiophene hydrodesulphurization. Kloprogge et al., 97(1993)77

Titanates

Reactivity of novel ion-exchanged nickel/hydrous titanate catalysts. Anderson et al., 82(1992)185

Titania

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride:

Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

Titania support

Characterization of mixed copper–manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

Titania/alumina

Titania-alumina mixed oxides as supports for molybdenum hydrotreating catalysts. Ramirez et al., 93(1993)163

Titania-alumina

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Titania-silica

Nickel supported in titania-silica: Preparation, characterization and activity for liquid-phase hydrogenation of acetophenone. Kumbhar, 96(1993)241

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Titania-silica-zirconia

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Titania-zirconia

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Titanium oxide

Kinetics of methane oxidative coupling on zinc-doped titanium oxide. Efstathiou et al., 92(1992)1

Titanium silicalite 1

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

Parameters affecting the synthesis of titanium silicalite 1. van der Pol et al., 92(1992)93

Why are some titanium silicalite-1 samples active and others not?. van der Pol et al., 92(1992)113

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Titanosilicates

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Toluene

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Selectivity to cyclohexenes in the liquid phase hydrogenation of benzene and toluene over ruthenium catalysts, as influenced by reaction modifiers. Struijk et al., 82(1992)277

Ammoxidation of toluene over CuNa-ZSM-5. Kim et al., 85(1992)47

Oxidative methylation of toluene with methane over Pb/Li/MgO catalysts. Kim et al., 87(1992)115

Platinum/γ-Al₂O₃ catalytic membrane preparation, morphological and catalytic characterizations. Uzio et al., 96(1993)83

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Oxidative methylation of toluene with methane over Li/MgO promoted Pb₃(PO₄)₂. Suh et al., 96(1993)L7

Toluene alkylation

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

Toluene disproportionation

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Adsorption, acid and catalytic changes induced in ZSM-5 by coking with different hydrocarbons. Uguina et al., 99(1993)97

Toluene isopropylation

Toluene isopropylation over zeolite b and metallosilicates of MFI structure. Parikh et al., 90(1992)1

Toluene oxidation

Catalytic and spectroscopy studies of vanadium oxide supported on group IVb and Vb metal oxides for oxidation of toluene. Huutanen et al., 97(1993)197

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Tortuosity

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Transient kinetics

Water-gas shift reaction on a cobalt-molybdenum oxide catalyst. Hakkarainen et al., 99(1993)195

Transient response

Methanol synthesis catalysts derived from copper intermetallic precursors: Transient response to pulses of carbon dioxide, oxygen and nitrous oxide. Jennings et al., 82(1992)65

Transition metals

Promoting effect of active carbons on methanol dehydrogenation on sodium carbonate: Hydrogen spillover. Su et al., 95(1993)131

Transition-based metal catalysts

Kinetic interpretation of periodic trends in heterogeneous catalysis. Kasztelan, 83(1992)L1

Transmission electron microscopy

Reactivity of novel ion-exchanged nickel/hydrous titanate catalysts. Anderson et al., 82(1992)185

X-ray diffraction and electron microscopy studies of Pt-Sn-SiO₂ catalysts. Srinivasan et al., 87(1992)45

Triglyceride hydrogenation

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

TS-1

Parameters affecting the synthesis of titanium silicalite 1. van der Pol et al., 92(1992)93

Why are some titanium silicalite-1 samples active and others not?. van der Pol et al., 92(1992)113

Comparison between gas chromatography and highperformance liquid chromatography analysis of the reaction products formed by the hydroxylation of phenol. Van der Pol et al., 96(1993)L13

Hydroxylation of phenol with hydrogen peroxide on EROTS-1 catalyst. Martens et al., 99(1993)71

Tungsten doping

Naphthalene hydrogenation reactivity of rhodiumrhenium and ruthenium-rhenium formulations dispersed on doped titania carriers. Koussathana et al., 95(1993)211

Tungsten oxide

Effect of WO₃ loading on the surface acidity of WO₃/Al₂O₃ composite oxides. Zhang et al., 84(1992)123

Tungsten trioxide/alumina

Effect of WO₃ loading on the surface acidity of WO₃/Al₂O₃ composite oxides. Zhang et al., 84(1992)123

U

Ultrafine particle catalyst

Catalytic properties and crystalline structures of manganese-promoted iron ultrafine particles for liquidphase hydrogenation of carbon monoxide. Itoh et al., 96(1993)125

Unsaturated aldehyde

Effect of promoter on selective hydrogenation of $\alpha \beta$ unsaturated aldehydes over cobalt borides. Chen et al.,
99(1993)85

Unsaturated hydrocarbons hydrogenation

Hydrogenation catalysts based on nickel and rare earth oxides. I. Relation between cations nature, preparation route, hydrogen content and catalytic activity. Sohier et al., 84(1992)169

USHY

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

USY zeolite

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67



V/Mo/P/Al/Ti oxide

Heterogeneously catalysed gas phase oxidations of 1,3pentadiene-cyclodimers and of related substances. Miura et al., 87(1992)241

Vanadia

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Catalytic and spectroscopy studies of vanadium oxide supported on group IVb and Vb metal oxides for oxidation of toluene. Huutanen et al., 97(1993)197

Oxidation of toluene over V₂O₅/Nb₂O₅ catalysts. Huuhtanen et al., 98(1993)159

Vanadia-titania

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al., 85(1992)13

Vanadia/silica

Role of surface acidity on vanadia/silica catalysts used in the oxidative dehydrogenation of ethane. Le Bars et al., 88(1992)179

Vanadia/titania

Vanadia on titania prepared by vapour deposition of vanadyl alkoxide: Influence of preparation variables on structure and activity for the selective catalytic reduction of nitric oxide by ammonia. Nickl et al.,

98(1993)173

Vanadia-titania

Physical and chemical characterization of surface vanadium oxide supported on titania: Influence of the titania phase (anatase, rutile, brookite and B). Deo et al., 91(1992)27

Vanadium

Vanadium mixed oxide catalysts for the oxidative coupling of methane. Gervasini et al., 83(1992)235

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

Oxidative dehydrogenation of propane on vanadium supported on magnesium silicates. Corma et al., 97(1993)159

Homogeneous and heterogeneous contributions to the oxidative dehydrogenation of propane on oxide catalysts. Burch et al., 100(1993)111

Vanadium effects

Activity of vanadium on different catalyst supports. Lee, 82(1992)215

Vanadium oxide

Effect of crystal morphology in selective catalytic reduction of nitric oxide over V₂O₅ catalysts. Ozkan et al., 96(1993)365

Synthesis of isobutyraldehyde from methanol and ethanol over mixed oxide supported vanadium oxide catalysts. Reddy et al., 96(1993)L1

Vanadium oxides as regenerable reagents in the oxidation of butan-2-one to diacetyl. McCullagh et al., 97(1993)39

Vanadium pentoxide

Some fundamental and practical aspects of the ammoxidation of alkylbenzenes. Rizayev et al., 83(1992)103

Selective oxidation of butan-2-one to diacetyl over vanadium pentoxide: An investigation by temporal analysis of products. McCullagh et al., 95(1993)183

Vanadium silicate

Catalytic hydroxylation of phenol over vanadium silicate molecular sieve with MEL structure. Hari Prasad Rao et al., 93(1993)123

Vanadium-magnesium oxide

Oxidative dehydrogenation of n-butane to butadiene: effect of different promoters on the performance of V-Mg-O catalysts. Bhattacharyya et al., 87(1992)29

Vanadium-phosphorus oxide

Kinetic study of the selective oxidation of butan-2-one to diacetyl over vanadium phosphorus oxide. McCullagh et al., 93(1993)203

Properties of cobalt-promoted (VO)P₂O₇ in the oxidation of butane. Zazhigalov et al., 96(1993)135

Vanadium-molybdenum oxide

Promotional effect of sodium and phosphorus on V-Mo-O catalyst. Liu et al., 97(1993)103

Vanadium-phosphorus-oxygen

Acidity and catalytic behavior of vanadium-phosphorus-oxygen catalysts. Cornaglia et al., 100(1993)37

Vapour deposition

Vanadia on titania prepared by vapour deposition of vanadyl alkoxide: Influence of preparation variables on structure and activity for the selective catalytic reduction of nitric oxide by ammonia. Nickl et al., 98(1993)173

Vegetable oil hydrogenation

Nickel supported on natural silicates: Activity and selectivity in sunflower seed oil hydrogenation. Rodrigo et al., 88(1992)101

5-Vinylbicyclo[2.2.1]hept-2-ene

Calcium oxide as a catalyst for the isomerization of 5-vinylbicyclo[2.2.1]hept-2-ene to 5-ethylidenebicyclo[2.2.1]hept-2-ene in the liquid phase. Baba et al., 97(1993)L19

Volatile organic compounds

Deep oxidation of hydrocarbons. Agarwal et al., 81(1992)239

Catalyst deactivation during deep oxidation of chlorohydrocarbons. Agarwal et al., 82(1992)259

VPI-5

Dehydration of (DPA) VPI-5: In situ variable temperature multinuclear NMR investigations. Maistriau et al., 81(1992)67

VPO

Selective oxidation of n-butane to maleic anhydride: A comparative study between promoted and unpromoted VPO catalysts. Bej et al., 83(1992)149



Wacker catalysts (heterogeneous)

Oxidation of ethylene to acetaldehyde over a heterogenized surface-vanadate Wacker catalyst in the absence of gaseous oxygen. Van der Heide et al., 86(1992)181

Water

Intrinsic kinetics of nitric oxide reduction by ammonia on a vanadia-titania catalyst. Lintz et al., 85(1992)13

Kinetic investigation of the oxidative dehydrogenation of isobutyric acid on a Fe-P-O catalyst: Role of water. Dekiouk et al., 90(1992)61

Water effect

Activity and structural changes of alumina-supported CuO and CuCr₂O₄ catalysts during carbon monoxide oxidation in the presence of water. Lopez Agudo et al., 91(1992)43

Water-gas shift

Hydrogen formation in propane oxidation on Pt-Rh/CeO₂/Al₂O₃ catalysts. Barbier, Jr. et al., 85(1992)89

Deactivation of the high temperature water-gas shift catalyst in nonisothermal conditions. Keiski et al., 87(1992)185

Water-gas shift reaction on a cobalt-molybdenum oxide catalyst. Hakkarainen et al., 99(1993)195

Wax production

Cobalt/manganese oxide catalysts: Use of chromium promoters for long chain hydrocarbon production. Colley et al., 84(1992)1



X-ray diffraction

Recently published work on EUROPT-1, a 6% Pt/SiO₂ reference catalyst — a Review. Bond et al., 86(1992)1

X-ray diffraction and electron microscopy studies of Pt-Sn-SiO₂ catalysts. Srinivasan et al., 87(1992)45

Reactor materials for use with the Li/MgO methane coupling catalyst. Slagtern et al., 91(1992)13

Characterization of mixed copper-manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

X-ray photoelectron spectrometry

Catalytic behavior of platinum ion-exchanged zincaluminosilicates in n-pentane aromatization. Fukase et al., 93(1992)35

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

Examination of de-coking of promoted (Co, Ni) Mo/γ-Al₂O₃ catalysts by X-ray photoelectron spectroscopy. Hughes et al., 90(1992)117

X-ray photoelectron spectroscopy investigation of palladium in automotive catalysts: Binding energies and reduction characteristics. Schmitz et al., 92(1992)59

Characterization of mixed copper-manganese oxides supported on titania catalysts for selective oxidation of ammonia. Wöllner et al., 94(1993)181

Solid catalysts treated with anions. XXI. Zirconia-supported chromium catalyst for dehydrocyclization of hexane to benzene. Arata et al., 100(1993)19

Xenon-NMR

Xenon adsorption studies on faujasite-like zeolites: Low-temperature ¹²⁹Xe-NMR and room temperature isotherms. Pires et al., 95(1993)75

Xylene

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Xylene isomers

Isomerization of xylene isomers on a PtRe-H-mordenite catalyst. Aboul-Gheit et al., 93(1993)131

o-Xylene oxidation

Titania supported vanadium oxide catalysts for the selective oxidation of o-xylene to phthalic anhydride: Influence of vanadia content on activity and surface species. Nobbenhuis et al., 85(1992)157

Xylenes

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

3,5-Xylenol

Influence of coke formation on the aromatization of isophorone. Sai Prasad et al., 83(1992)141

Y

Y-type zeolite

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Yttrium oxide

Characterization of catalysts for methane coupling by means of thermal methods. Spinicci et al., 93(1992)47

Z

Zeolite β

Toluene isopropylation over zeolite b and metallosilicates of MFI structure. Parikh et al., 90(1992)1

Zeolite carriers

Characterization of nickel species at Ni/γ-Al₂O₃ and Ni/faujasite catalysts by carbon monoxide adsorption. Kubelkova et al., 95(1993)87

Zeolite L

Improvement of platinum-supported zeolite catalysts for n-hexane aromatization by halocarbon treatment and alkaline soaking. Sugimoto et al., 96(1993)201

Zeolite LTL

Hydrogenation of phenol over supported platinum and palladium catalysts. Talukdar et al., 96(1993)229

Zeolite Y

Improvement of platinum-supported zeolite catalysts for n-hexane aromatization by halocarbon treatment and alkaline soaking. Sugimoto et al., 96(1993)201

Zeolite Y

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Zeolite-β

Alkylation of benzene with isopropanol over zeolite beta. Reddy, 95(1993)53

Zeolite-beta

Optimization of zeolite beta in cracking catalysts: Influence of crystallite size. Bonetto et al., 82(1992)37

Zeolite-Y

Xenon adsorption studies on faujasite-like zeolites: Low-temperature ¹²⁹Xe-NMR and room temperature isotherms. Pires et al., 95(1993)75

Zeolites

Influence of copper on physico-chemical and catalytic properties of ZSM-5 zeolites in the reaction of ethene aromatization. Arishtirova et al., 81(1992)15

Synthesis and characterization of defect-free crystals of MFI-type zeolites. Axon et al., 81(1992)27

Two-dimensional 13C solid-state spin-diffusion NMR of the products of methanol conversion into gasoline adsorbed on zeolite H-ZSM-5. Kolodziejski et al., 81(1992)133

Oxidation of benzene to phenol by nitrous oxide over Fe-ZSM-5 zeolites. Panov et al., 82(1992)31

Para-selectivity of zeolites with MFI structure: Difference between disproportionation and alkylation. Kim et al., 83(1992)51

Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Aromatization of propane over a zeolite catalyst in both a microreactor and pilot plant. Harris et al., 83(1992)59

Effects of pretreatments on state of gallium and aromatization activity of gallium/ZSM-5 catalysts. Dooley et al., 84(1992)17

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Deamination of sec-butylamine over acidic zeolites. Lequitte et al., 84(1992)155

Roles of Brønsted and Lewis sites during cracking of n-octane on H-mordenite. Abbot et al., 85(1992)173

Gallium containing hybrid catalyst for the aromatization of n-butane. Le Van Mao et al., 86(1992)127

Relationship between reduced nickel and activity for benzene hydrogenation on Ni-USY zeolite catalysts. Daza et al., 87(1992)145

Conversion of light alkanes into aromatic hydrocarbons. VI. Aromatization of C₂-C₄ alkanes on H-ZSM-5 - Reaction mechanisms. Guisnet et al., 87(1992)255

Trans-but-2-ene is the first hydrocarbon produced in the conversion of methanol to gasoline over zeolite H-ZSM-5. Sulikowski et al., 89(1992)69

High efficiency of alumina and H-zeolite catalysts for selective reduction of nitrogen monoxide by methanol in the presence of oxygen and water vapor. Hamada et al., 88(1992)L1

Effects of calcination program and rehydration on palladium dispersion in zeolites NaY and 5A. Zhang et al., 89(1992)155

Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

Influence of vanadium on the physicochemical and catalytic properties of USHY zeolite and FCC catalyst. Torrealba et al., 90(1992)35

Method for distinguishing Brønsted-acid sites in mixtures of H-ZSM-5, H-Y and silica-alumina. Pereira et al., 90(1992)145

Isomerization of xylene isomers on a PtRe-H-mordenite catalyst. Aboul-Gheit et al., 93(1993)131

Catalytic cracking of tetralin on HY zeolite. Townsend et al., 90(1992)97

Barium modification of a high-silica zeolite for methanol conversion to light alkenes. Abdillahi et al., 91(1992)1 Hydroisomerization of n-pentane over hybrid catalysts containing a supported hydrogenation catalyst. Fujimoto et al., 91(1992)81

Characteristics of the poisoning effect of nickel deposited on USY zeolite. Tao et al., 91(1992)67

Parameters affecting the synthesis of titanium silicalite 1. van der Pol et al., 92(1992)93

Why are some titanium silicalite-1 samples active and others not?. van der Pol et al., 92(1992)113

Coke formation in high-silica zeolites — a review. Bibby et al., 93(1992)1

Para-selective alkylation of toluene with methanol over ZSM-5 zeolites. Vayssilov et al., 94(1993)117

Catalytic conversion of methanol into light alkenes on mordenite-like zeolites. Marchi et al., 94(1993)91

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Shape selective reactions of some inorganic compounds on the zeolite KZ-1. Rane et al., 93(1993)191

Catalyst for the elimination of sulphur dioxide from streams by the Claus reaction at low temperature. Alvarez et al., 93(1993)231

Calorimetric and catalytic investigation of alkanes reactivity over a variety of MFI structures. Auroux et al., 93(1993)181

Role of molecular oxygen in the catalytic behaviour of ZSM-5 zeolite in hydrocarbon transformation. Cavani et al., 94(1993)131

Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

Novel regeneration method of Pt/KL zeolite catalyst for light naphtha reforming. Sugimoto et al., 95(1993)255

Pillared clays: Characterization of acidity and catalytic properties and comparison with some zeolites. Auer et al., 97(1993)23

Catalytic reactions of tetralin on H-ZSM-5 zeolite. Townsend et al., 95(1993)221 Oxydehydrogenation of ethane over ZSM-5 zeolite catalysts: Effect of steam. Chang et al., 96(1993)305

Surface acidity of porous catalysts by intermittent temperature-programmed desorption. Joly et al., 96(1993)355

Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Ferrisilicate analogs of ZSM-5 zeolite as catalysts for one-step oxidation of benzene to phenol. Kharitonov et al., 98(1993)33

Effects of catalyst composition on dual site zeolite catalysts used in chlorinated hydrocarbon oxidation. Chatterjee et al., 98(1993)139

Direct Fries reaction of resorcinol with benzoic acods catalysed by zeolite H-beta. Hoefnagel et al., 97(1993)87

Solid-state nuclear magnetic resonance studies of the transformation of the zeolite Y catalyst in the course of hydrochlorination of 1-methylcyclohexene by thionyl chloride. Kolodziejski et al., 98(1993)71

Adsorption, acid and catalytic changes induced in ZSM-5 by coking with different hydrocarbons. Uguina et al., 99(1993)97

Mo-USY zeolites for hydrodesulphurization. II. Surface properties of sulphided catalysts and activity for thiophene hydrodesulphurization. Anderson et al., 99(1993)55

Preparation of highly para-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

Electron transfer in zeolites: Formation of aminium and bipyridinium cation radicals. Brunel et al., 99(1993)9

Benzylation of toluene by benzyl chloride over protonic zeolites. Coq et al., 100(1993)69

Zeolites (ZSM-5)

Ammoxidation of toluene over CuNa-ZSM-5. Kim et al., 85(1992)47

Zeolites (ZSM-5, EU-1)

Direct partial oxidation of benzene to phenol on zeolite catalysts. Burch et al., 86(1992)139

Ziegler-Natta catalysts

Dimerization of ethene to 2-butene and metathesis with 1-butene by sequential use of homogeneous catalyst systems. Pillai et al., 81(1992)273

Zinc

Kinetics of methane oxidative coupling on zinc-doped titanium oxide. Efstathiou et al., 92(1992)1

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

Zinc aluminate spinel

Metal-support effects and catalytic properties of platinum supported on zinc aluminate. Aguilar-Rios et al., 90(1992)25

Zinc oxide

Reliability of pulse-chromatographic nitrous oxide titrations of the copper surface area on Cu-ZnO-MeO_x catalysts in connection with the characterization of their thermostability. Berndt et al., 86(1992)65

Characterization of catalysts for methane coupling by means of thermal methods. Spinicci et al., 93(1992)47

Selective photo-oxidation of light alkanes using solid metal oxide semiconductors. Wada et al., 99(1993)21

Zinc sulphate

Partial liquid phase hydrogenation of benzene to cyclohexene over ruthenium catalysts in the presence of an aqueous salt solution. I. Preparation, characterization of the catalyst and study of a number of process variables. Struijk et al., 83(1992)263

Zinc-aluminosilicate

Catalytic behavior of platinum ion-exchanged zincaluminosilicates in n-pentane aromatization. Fukase et al., 93(1992)35

Zirconia

Novel direct hydrogenation process of aromatic carboxylic acids to the corresponding aldehydes with zirconia catalyst. Yokoyama et al., 88(1992)149

Esterification of phthalic anhydride with 2-ethylhexanol by solid superacidic catalysts. Thorat et al., 90(1992)73 Oxidative coupling of methane over alkali metal chloride promoted zirconia. Effect of the preparation pethod. Khan et al., 90(1992)199

Titania-zirconia mixed oxide aerogels as supports for hydrotreating catalysts. Weissman et al., 94(1993)45

Novel synthetic method for the catalytic use of thermally stable zirconia: Thermal decomposition of zirconium alkoxides in organic media. Inoue et al., 97(1993)L25

Zirconia support

Propane dehydrogenation on chromia/zirconia catalysts. De Rossi et al., 81(1992)113

Zirconium

Surface segregation and catalytic hydrogenation properties of Ni₆₇Zr₃₃ amorphous alloy. Bao et al., 85(1992)101

Catalytic activity of layered α -(tin or zirconium) phosphates and chromia-pillared derivatives for isopropyl alcohol decomposition. Guerrero-Ruiz et al., 92(1992)81

Zirconium alkoxide

Novel synthetic method for the catalytic use of thermally stable zirconia: Thermal decomposition of zirconium alkoxides in organic media. Inoue et al., 97(1993)L25

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ZSM-20

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ZSM-5

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Synthesis and characterization of defect-free crystals of MFI-type zeolites. Axon et al., 81(1992)27

Two-dimensional 13C solid-state spin-diffusion NMR of the products of methanol conversion into gasoline adsorbed on zeolite H-ZSM-5. Kolodziejski et al., 81(1992)133

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Reforming of pyrolysis gasoline over platinum-alumina catalysts containing MFI type zeolites. Madhusudan Reddy et al., 83(1992)1

Effects of pretreatments on state of gallium and aromatization activity of gallium/ZSM-5 catalysts. Dooley et al., 84(1992)17

Preparation and characterization of titanosilicates with the ZSM-5 structure. Sulikowski et al., 84(1992)141

Gallium containing hybrid catalyst for the aromatization of n-butane. Le Van Mao et al., 86(1992)127

Conversion of light alkanes into aromatic hydrocarbons. VI. Aromatization of C₂-C₄ alkanes on H-ZSM-5 - Reaction mechanisms. Guisnet et al., 87(1992)255

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Aromatization of short chain alkanes on zeolite catalysts — a Review. Guisnet et al., 89(1992)1

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Coke formation in high-silica zeolites — a review. Bibby et al., 93(1992)1

Para-selective alkylation of toluene with methanol over ZSM-5 zeolites. Vayssilov et al., 94(1993)117

Hydrogenation of carbon dioxide to C₁–C₇ hydrocarbons via methanol on composite catalysts. Inui et al., 94(1993)31

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Alkylation of toluene over double structure ZSM-5 type catalysts covered with a silicalite shell. Lee et al., 96(1993)151

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Oxidative hydroxylation using dinitrogen monoxide: A possible route for organic synthesis over zeolites — a Review. Panov et al., 98(1993)1

Adsorption, acid and catalytic changes induced in ZSM-5 by coking with different hydrocarbons. Uguina et al., 99(1993)97

Preparation of highly *para*-selective metallosilicate catalysts for alkylation of ethylbenzene with ethanol. Kim et al., 100(1993)27

